

BETH C. DRAIN, CA CSR NO. 7152

BEFORE THE
INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE AND THE
APPLICATION REVIEW SUBCOMMITTEE
TO THE
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT
REGULAR MEETING

LOCATION: 1999 HARRISON STREET
SUITE 1650
OAKLAND, CALIFORNIA

DATE: OCTOBER 31, 2019
9 A.M.

REPORTER: BETH C. DRAIN
CA CSR. NO. 7152

FILE NO.: 2019-16

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2. PLEDGE OF ALLEGIANCE.	4
3. ROLL CALL.	4
ACTION ITEMS:	
4. CONSIDERATION OF ALLOCATION OF REMAINING 2019 SCIENTIFIC RESEARCH BUDGET.	23
5. CONSIDERATION OF APPLICATIONS SUBMITTED IN RESPONSE TO CLINICAL TRIAL STAGE PROJECTS (CLIN-1, 2 OR 3).	27
6. CONSIDERATION OF APPLICATIONS SUBMITTED IN RESPONSE TO PARTNERING OPPORTUNITY: TRANSLATIONAL RESEARCH PROJECT.	47
7. CLOSED SESSION:	NONE
DISCUSSION OF CONFIDENTIAL INTELLECTUAL PROPERTY OR WORK PRODUCT, PREPUBLICATION DATA, FINANCIAL INFORMATION, CONFIDENTIAL SCIENTIFIC RESEARCH OR DATA, AND OTHER PROPRIETARY INFORMATION RELATING TO APPLICATIONS SUBMITTED IN RESPONSE TO AGENDA ITEM "5 AND 6" ABOVE. (HEALTH & SAFETY CODE 125290.30(F) (3) (B) AND (C)).	
ACTION ITEMS:	
8., 9., 10. PROPOSED CONSENT CALENDAR	18
ADOPTION OF JUNE, JULY, AUGUST, SEPTEMBER, OCTOBER, NOVEMBER, DECEMBER 2018, AND JANUARY, FEBRUARY, MARCH, APRIL, MAY, JUNE AND JULY 2019 MEETING MINUTES	

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I N D E X (CONT'D.)

APPOINTMENT OF SCIENTIFIC MEMBERS TO THE
GRANTS WORKING GROUP.

CONSIDERATION OF AMENDMENTS TO ADMINISTRATIVE
FUNDS DONOR AGREEMENT AND DISCLOSURE OF FUNDS
RECEIVED FROM DONORS.

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OAKLAND, CALIFORNIA; OCTOBER 31, 2019

9:06 A.M.

CHAIRMAN THOMAS: GOOD MORNING AND HAPPY HALLOWEEN, EVERYBODY. WE ARE GOING TO START NOW. WE ARE STILL WAITING FOR A MEMBER OR TWO TO JOIN, BUT WE ARE GOING TO PROCEED HERE. MARIA, WOULD YOU PLEASE LEAD US WITH THE PLEDGE OF ALLEGIANCE.

(THE PLEDGE OF ALLEGIANCE.)

CHAIRMAN THOMAS: THANK YOU, MARIA. WOULD YOU PLEASE CALL THE ROLL.

MS. BONNEVILLE: GEORGE BLUMENTHAL.

DR. BLUMENTHAL: HERE.

MS. BONNEVILLE: LINDA BOXER. LARS BERGLUND.

DR. BERGLUND: YES.

MS. BONNEVILLE: DEBORAH DEAS.

DR. DEAS: HERE.

MS. BONNEVILLE: ANNE-MARIE DULIEGE. JUDY GASSON.

DR. GASSON: HERE.

MS. BONNEVILLE: DAVID HIGGINS.

DR. HIGGINS: HERE.

MS. BONNEVILLE: STEPHEN JUELSGAARD.

MR. JUELSGAARD: HERE.

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1 MS. BONNEVILLE: LINDA MALKAS.
2 DR. MALKAS: HERE.
3 MS. BONNEVILLE: DAVE MARTIN.
4 DR. MARTIN: HERE.
5 MS. BONNEVILLE: SHLOMO MELMED.
6 DR. MELMED: HERE.
7 MS. BONNEVILLE: LAUREN MILLER.
8 MS. MILLER: HERE.
9 MS. BONNEVILLE: ADRIANA PADILLA. JOE
10 PANETTA. FRANCISCO PRIETO. ROBERT QUINT. AL
11 ROWLETT. SUZANNE SANDMEYER.
12 DR. SANDMEYER: HERE.
13 MS. BONNEVILLE: JEFF SHEEHY.
14 MR. SHEEHY: HERE.
15 MS. BONNEVILLE: OSWALD STEWARD.
16 DR. STEWARD: HERE.
17 MS. BONNEVILLE: JONATHAN THOMAS.
18 CHAIRMAN THOMAS: HERE.
19 MS. BONNEVILLE: ART TORRES.
20 MR. TORRES: HERE.
21 MS. BONNEVILLE: KRISTINA VUORI.
22 DR. VUORI: HERE.
23 MS. BONNEVILLE: DIANE WINOKUR. DOUG
24 ZIEDONIS.
25 DR. ZIEDONIS: HERE.

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1 MS. BONNEVILLE: KEITH YAMAMOTO.

2 DR. YAMAMOTO: HERE.

3 CHAIRMAN THOMAS: THANK YOU VERY MUCH.

4 BECAUSE WE ARE STILL WAITING FOR A MEMBER OR TWO, WE
5 ARE GOING TO PUT THE ACTION ITEMS TO THE SIDE
6 MOMENTARILY AND PROCEED TO AN ITEM OR TWO ON THE
7 DISCUSSION AGENDA, STARTING WITH NO. 12, USE OF
8 PUBLIC FUNDS IN CONNECTION WITH BALLOT MEASURE,
9 PRESENTATION BY MR. HARRISON.

10 MR. HARRISON: GOOD MORNING, EVERYONE.
11 FOR THOSE OF YOU I HAVE NOT HAD A CHANCE TO MEET, MY
12 NAME IS JAMES HARRISON. I WAS FORMERLY GENERAL
13 COUNSEL OF THE AGENCY, AND I'M HERE TODAY TO TALK
14 ABOUT THE USE OF PUBLIC FUNDS IN CONNECTION WITH
15 BALLOT MEASURES.

16 A TIMELY TOPIC. AS MANY OF YOU LIKELY
17 KNOW, A MEASURE HAS BEEN SUBMITTED TO THE ATTORNEY
18 GENERAL'S OFFICE THAT WOULD PROVIDE \$5.5 BILLION IN
19 GENERAL OBLIGATION BONDS FOR CIRM'S USE TO FUND STEM
20 CELL RESEARCH. AND THAT PUTS YOU, AS AN AGENCY, IN
21 A LITTLE BIT OF A TRICKY POSITION BECAUSE PUBLIC
22 AGENCIES, UNDER BOTH STATUTORY LAW AND THE
23 CALIFORNIA CONSTITUTION, ARE PROHIBITED FROM USING
24 THEIR RESOURCES TO ATTEMPT TO INFLUENCE THE VOTERS'
25 ACTIONS FOR OR AGAINST A BALLOT MEASURE. THAT

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1 DOESN'T MEAN THAT YOUR LIPS HAVE TO BE COMPLETELY
2 ZIPPED, BUT IT DOES MEAN THAT YOU HAVE TO BE
3 EXTRAORDINARILY CAREFUL TO MAKE SURE THAT YOU
4 APPROPRIATELY NAVIGATE THE SOMETIMES GRAY ZONES
5 DEFINING WHAT'S PERMISSIBLE AND WHAT'S IMPERMISSIBLE
6 FOR PURPOSES OF PUBLIC AGENCY ACTIVITY IN CONNECTION
7 WITH BALLOT MEASURES.

8 SO I'M GOING TO GO THROUGH A SUMMARY OF
9 THE LAW TODAY AND GIVE YOU SOME EXAMPLES. I'D
10 INVITE YOU TO ASK ME QUESTIONS AT ANY TIME, AND I'D
11 LIKE TO MAKE THIS AS INTERACTIVE AS POSSIBLE.

12 MY GOAL TODAY IS TO TRY TO MAKE SURE THAT
13 YOU UNDERSTAND BOTH THE BRIGHT LINES AS WELL AS THE
14 GRAY AREAS SO THAT YOU KNOW WHEN IT MIGHT BE
15 APPROPRIATE TO PAUSE BEFORE UNDERTAKING ACTIONS TO
16 SEEK GUIDANCE. AND IN PARTICULAR THE COURTS HAVE
17 DRAWN BOUNDARIES AROUND PUBLIC AGENCIES' USE OF
18 PUBLIC FUNDS. THIS IS, AGAIN, BOTH STATUTORY LAW AS
19 WELL AS CONSTITUTIONAL LAW OF THE CALIFORNIA SUPREME
20 COURT IN A DECISION ABOUT EIGHT YEARS AGO INVOLVING
21 THE CITY OF SALINAS WHERE THEY SET FORTH SOME
22 GUIDELINES. I WON'T SAY THEY'RE EXACTLY CLEAR
23 BECAUSE THEY'RE NOT ALWAYS, BUT THEY AT LEAST
24 IDENTIFY THREE CATEGORIES OF ACTIVITIES: THOSE THAT
25 WERE CLEARLY IMPERMISSIBLE, SO FLAT OUT CAMPAIGN

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1 ACTIVITIES; THOSE THAT ARE PERMISSIBLE, SUCH AS
2 PROVIDING INFORMATION TO MEMBERS OF THE PUBLIC
3 THAT'S FACTUAL IN NATURE AND OBJECTIVE; AND THEN
4 THERE ARE THOSE CATEGORIES OF ACTIVITIES THAT FALL
5 IN A GRAY ZONE WHERE THE COURTS AND THE ATTORNEY
6 GENERAL WILL CONSIDER THINGS LIKE THE STYLE, TENOR,
7 AND TIMING OF THE COMMUNICATIONS AT ISSUE.

8 SO THE CLEARLY IMPERMISSIBLE CATEGORIES
9 INVOLVE THINGS THAT YOU WOULD PROBABLY EXPECT.
10 OBVIOUSLY YOU ARE PROHIBITED FROM EXPLICITLY
11 ADVOCATING FOR A VOTE ON A BALLOT MEASURE. THE
12 AGENCY IS PROHIBITED FROM PRODUCING WHAT ARE
13 REFERRED TO AS TYPICAL CAMPAIGN MATERIALS. AND
14 THESE WOULD BE THINGS LIKE BUMPER STICKERS, YARD
15 SIGNS, TV AND RADIO SPOTS. AND THE AGENCY IS ALSO
16 PROHIBITED FROM COORDINATING WITH THE BALLOT MEASURE
17 COMMITTEE TO MAKE EXPENDITURES IN SUPPORT OF OR IN
18 OPPOSITION TO A MEASURE, BUT THAT DOESN'T MEAN THAT
19 THE AGENCY CAN'T DO ANYTHING.

20 THE COURTS HAVE IDENTIFIED AREAS THAT ARE
21 CLEARLY PERMISSIBLE, AND THESE LARGELY REVOLVE
22 AROUND INFORMATIONAL ACTIVITIES. SO OBVIOUSLY AS AN
23 AGENCY CHARGED WITH DISBURSING THE ORIGINAL \$3
24 BILLION THAT WAS ALLOCATED TO CIRM, CIRM HAS A LOT
25 TO SAY ABOUT STEM CELL RESEARCH. AND THE FACT THAT

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1 THERE IS A BALLOT MEASURE PENDING DOESN'T MEAN THAT
2 CIRM NEEDS TO STOP PROVIDING INFORMATION ABOUT WHAT
3 THE AGENCY DOES, WHAT IT'S FUNDED, AND WHAT ITS
4 PLANS ARE FOR THE FUTURE.

5 SO THE AGENCY IS PERMITTED TO PREPARE
6 REPORTS AND ANALYSES INCLUDING OF THE MEASURE
7 ITSELF. IT IS FREE TO PROVIDE THE PUBLIC WITH
8 INFORMATIONAL MATERIAL, INCLUDING FACT SHEETS, ABOUT
9 THE MEASURE. AND YOU, AS A BOARD, ARE PERMITTED IN
10 AN OPEN, NOTICED PUBLIC MEETING TO DEBATE THE
11 MEASURE AND TO TAKE A POSITION ON IT IF YOU WISH TO
12 DO SO IN SUPPORT OR IN OPPOSITION. AS LONG AS
13 THAT'S DONE IN AN OPEN, PUBLIC MEETING AND THE
14 AGENCY DOESN'T SUBSEQUENTLY SPEND FUNDS TO PUBLICIZE
15 THE BOARD'S ACTION, IT'S PERMISSIBLE FOR A PUBLIC
16 AGENCY BOARD TO TAKE A POSITION ON A BALLOT MEASURE.

17 SO THERE ARE SOME GRAY AREAS THAT I
18 MENTIONED, AND THESE INVOLVE CONSIDERATIONS OF
19 STYLE, TENOR, AND TIMING. SO AS A BACKDROP, THE
20 CITY OF SALINAS WAS CONFRONTED WITH A
21 VOTER-CIRCULATED MEASURE THAT WOULD HAVE REPEALED
22 THE CITY'S USERS TAX, WHICH WOULD HAVE BLOWN A
23 SIGNIFICANT HOLE IN THE CITY'S BUDGET. WHAT THE
24 CITY COUNCIL DID IN RESPONSE TO THAT WAS TO ADOPT A
25 CONTINGENT BUDGET WHICH IDENTIFIED ALL OF THE CUTS

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1 THE CITY WOULD MAKE TO ITS BUDGET IF THE VOTERS WERE
2 TO APPROVE THE ELIMINATION OF THE UTILITY USERS TAX.

3 THE CITY COMMUNICATED WITH ITS RESIDENTS
4 TO DESCRIBE THE ACTIONS THAT THE COUNCIL HAD TAKEN.
5 AND THIS INCLUDED A NEWSLETTER THAT THE CITY
6 REGULARLY SENT OUT, SO IT WAS A TYPICAL MEANS THAT
7 THE CITY USED FOR COMMUNICATING WITH ITS RESIDENTS,
8 AND IT ILLUSTRATED THE EFFECT OF THE CUTS BY SHOWING
9 A PICTURE -- IT'S KIND OF HARD TO SEE -- BUT A
10 PICTURE OF A SCHOOL CROSSING GUARD BECAUSE THE
11 CONTINGENT BUDGET WOULD HAVE REDUCED FUNDING FOR
12 SCHOOL SAFETY AND A PICTURE OF A METH LAB BECAUSE
13 THE MEASURE ALSO WOULD HAVE RESULTED IN BUDGET CUTS
14 FOR PUBLIC SAFETY. SO EVEN THOUGH THIS
15 COMMUNICATION PULLED AT THE HEART STRINGS A LITTLE
16 BIT BY SHOWING A SCHOOL CROSSING GUARD AND A METH
17 LAB, THE COURT, NONETHELESS, SAID THAT IT WAS
18 PERMISSIBLE AND WAS PERMISSIBLE FOR A COUPLE OF
19 IMPORTANT REASONS.

20 ONE, IT WAS THE CITY'S TYPICAL MEANS OF
21 COMMUNICATING WITH ITS CONSTITUENTS. IT CONVEYED
22 THE CITY'S VIEW OF THE IMPORTANCE OF PUBLIC SAFETY
23 AND SCHOOL SAFETY. AND IT WAS RELATIVELY MODERATE
24 IN TONE AND DID NOT EXHORT VOTERS TO VOTE ONE WAY OR
25 ANOTHER ON THE MEASURE. SO THAT'S AN EXAMPLE OF A

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1 COMMUNICATION THAT, FRANKLY, I WOULD HAVE SAID WAS
2 PRETTY CLOSE TO THE LINE, BUT THE CALIFORNIA SUPREME
3 COURT SAID WAS OKAY.

4 HERE'S AN EXAMPLE OF A COMMUNICATION THAT
5 THE COURT CITED AS BEING IMPERMISSIBLE. THIS ALSO
6 RELATED TO A TAX, TRANSPORTATION TAX IN THE CITY OF
7 VALLEJO. YOU LOOK AT THIS, AND MY IMPRESSION, AT
8 LEAST, IS IT LOOKS AN AWFUL LOT LIKE THE MAIL I
9 RECEIVE IN MY MAILBOX IN THE TWO WEEKS PRECEDING
10 EVERY ELECTION. IT'S GLOSSY, IT'S OVERSIZED, IT'S
11 NOT PARTICULARLY DESCRIPTIVE OR FACTUAL IN NATURE.
12 AND ON BALANCE THE COURT CONCLUDED THAT IT LOOKED
13 MORE LIKE AND ACTED MORE LIKE A CAMPAIGN MAILER THAN
14 IT DID TRADITIONAL INFORMATIONAL ACTIVITIES IN WHICH
15 A PUBLIC AGENCY CAN ENGAGE.

16 THIS IS ONE THAT I WANT TO DRAW ALL OF
17 YOUR ATTENTION TO BECAUSE IT ILLUSTRATES HOW
18 SERIOUSLY THESE RESTRICTIONS ARE TAKEN. SO THIS IS
19 AN INCIDENT THAT OCCURRED IN SANTA CLARA COUNTY
20 ABOUT TEN YEARS AGO. THE BOARD OF SUPERVISORS HAD
21 VOTED TO PLACE TWO MEASURES ON THE BALLOT. ONE OF
22 THE UNIONS IN THE COUNTY SUBMITTED A COMPETING
23 MEASURE. AND THE *SAN JOSE MERCURY NEWS*
24 EDITORIALIZED IN FAVOR OF THE TWO COUNTY MEASURES
25 AND AGAINST THE UNION MEASURE. ONE OF THE

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1 SUPERVISORS ASKED ONE OF HER AIDES TO DRAFT AN
2 E-MAIL TO HER INTERESTED PERSONS LIST ATTACHING THE
3 *SAN JOSE MERCURY NEWS* EDITORIAL. AND THE E-MAIL
4 ITSELF WAS FAIRLY VANILLA IN TONE, BUT IT WAS SENT
5 OUT TO ABOUT 1500 OF HER CONSTITUENTS. THE UNIONS
6 FILED A COMPLAINT WITH THE ATTORNEY GENERAL'S OFFICE
7 WHICH LAUNCHED AN INVESTIGATION OF THE SUPERVISOR
8 AND THE MISUSE OF PUBLIC FUNDS. AND IT ALSO LED TO
9 A CIVIL LAWSUIT THAT WENT ALL THE WAY UP TO THE
10 COURT OF APPEAL. ULTIMATELY THE COUNTY PREVAILED IN
11 THE LAWSUIT, BUT NOT BECAUSE IT FOUND THAT THE
12 ACTIVITY WAS PERMISSIBLE. IN FACT, IT FOUND THAT
13 THE ATTACHMENT, THE *SAN JOSE MERCURY NEWS* EDITORIAL,
14 DID CONTAIN EXPRESS ADVOCACY, AND THAT BY SENDING
15 THAT TO CONSTITUENTS, THE SUPERVISOR'S AIDE HAD
16 VIOLATED THE PROHIBITION ON USE OF PUBLIC FUNDS.
17 BUT THE COURT FOUND THAT IT FELL WITHIN AN EXCEPTION
18 FOR DE MINIMUS USE BECAUSE IT HAD LITERALLY TAKEN
19 HER TEN MINUTES OVER HER LUNCH HOUR TO DRAFT THIS
20 E-MAIL AND ATTACH THE *SAN JOSE MERCURY NEWS*
21 EDITORIAL.

22 SO TEN MINUTES OF TIME LED TO AN AG
23 CRIMINAL INVESTIGATION AND A LAWSUIT THAT WENT ALL
24 THE WAY UP TO THE COURT OF APPEAL WHICH PROBABLY
25 COST THE COUNTY CLOSE TO \$5 MILLION IN TOTAL ALL FOR

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1 A TEN-MINUTE E-MAIL. SO THIS IS AN EXAMPLE OF HOW
2 SERIOUSLY THESE LAWS ARE TAKEN AND HOW EVEN REALLY
3 SMALL, SMALL USES OF PUBLIC FUNDS CAN CAUSE
4 TREMENDOUS PROBLEMS FOR THOSE WHO USE THEM.

5 LET ME GIVE YOU A COUPLE OF OTHER EXAMPLES
6 OF AGENCIES THAT HAVE RECENTLY FOUND THEMSELVES IN
7 HOT WATER. SOME OF YOU MAY REMEMBER THAT BART
8 PLACED A BOND MEASURE ON THE BALLOT IN NOVEMBER OF
9 2016, MEASURE RR, WHICH AUTHORIZED \$3.5 BILLION IN
10 FUNDING, WHICH THE VOTERS DID APPROVE. BART
11 PRODUCED TWO VIDEOS IN CONNECTION WITH THE MEASURE.
12 AND THE VIDEOS CONSISTED OF INTERVIEWS WITH ORDINARY
13 BART RIDERS ASKING THEM ABOUT THEIR VIEWS OF THE
14 SYSTEM, WHAT THEY LIKED, WHAT THEY DIDN'T LIKE. SO
15 THE INTERVIEWS COMPRISED BOTH PRAISE FOR BART AND
16 COMPLAINTS FOR BART. AND BART POSTED THESE VIDEOS
17 ON THEIR WEBSITE, UPLOADED THEM TO TWITTER AND
18 FACEBOOK, AND, IMPORTANTLY, THE VIDEOS ENDED WITH
19 THE TAG LINE "TIME TO REBUILD."

20 A COMPLAINT WAS FILLED WITH THE FAIR
21 POLITICAL PRACTICES COMMISSION, AND ULTIMATELY THE
22 FPPC FINED BART \$7500. ONE OF THE RESPONSES TO THAT
23 WAS THAT IF AN AGENCY ONLY HAS TO PAY \$7500 TO GET
24 3.5 BILLION, THAT'S A PRETTY GOOD DEAL. SO THE FPPC
25 THEN PROCEEDED, AFTER IMPOSING THIS FINE, TO REFER

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1 THE BART DIRECTORS WHO HAD APPROVED THE EXPENDITURES
2 TO THE ATTORNEY GENERAL AND THE DISTRICT ATTORNEY
3 FOR POSSIBLE CRIMINAL ACTION. AGAIN, DEMONSTRATING
4 HOW SERIOUSLY THEY TOOK THIS.

5 AND, HONESTLY, AS A LAWYER WHO REVIEWS
6 THESE KIND OF COMMUNICATIONS FOR PUBLIC AGENCIES, IF
7 I HAD LOOKED AT THAT BART VIDEO BEFORE IT WAS
8 LOADED, I WOULD HAVE TOLD THEM TO REMOVE THE
9 TAGLINE, BUT I WOULD HAVE SAID THE REMAINDER OF THE
10 VIDEO WAS FINE. THE FPPC DISAGREED. THEY SAID THAT
11 BY BORROWING THE VOICES AND SYMPATHY OF BART RIDERS,
12 THE AGENCY WAS IMPLICITLY ENDORSING AND ADVOCATING
13 FOR MEASURE RR.

14 SO WE ARE NOW IN A CLIMATE WHERE THE FAIR
15 POLITICAL PRACTICES COMMISSION IS AGGRESSIVELY
16 PURSUING PUBLIC AGENCIES REGARDING THE USE OF PUBLIC
17 FUNDS IN CONNECTION WITH BALLOT MEASURES. THERE ARE
18 TWO LAWSUITS CURRENTLY PENDING THAT INVOLVE AN
19 EDUCATION EFFORT BY THE COUNTY OF LOS ANGELES WITH
20 RESPECT TO A SALES TAX FOR HOMELESS FUNDING. AND
21 MANY OF THE TAXPAYER GROUPS ARE ADVOCATING FOR THE
22 FAIR POLITICAL PRACTICES COMMISSION TO MORE
23 AGGRESSIVELY PURSUE AGAINST PUBLIC AGENCIES IN THIS
24 AREA.

25 SO A RECENT EXAMPLE INVOLVED PROP 6 WHICH

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1 WOULD HAVE REPEALED THE GAS TAX. THIS WAS ON THE
2 BALLOT IN NOVEMBER OF 2018. THE YES ON PROP 6
3 CAMPAIGN FILED A COMPLAINT BECAUSE A CALTRANS
4 CONTRACTOR ON A WORKSITE ON A HIGHWAY DECIDED TO
5 HAND OUT FLIERS TO MOTORISTS THAT WERE STUCK IN
6 TRAFFIC ADVOCATING FOR A NO VOTE ON PROP 6. NOW,
7 FIRST OF ALL, YOU HAVE TO QUESTION THE JUDGMENT
8 INVOLVED BECAUSE IF YOU'RE STUCK IN TRAFFIC,
9 PROBABLY GETTING THE NOTICE ABOUT THE GAS TAX IS NOT
10 THE RIGHT TIME, BUT IT ALSO WAS A PROBLEM BECAUSE IT
11 SUGGESTED THAT SOMEHOW CALTRANS WAS INVOLVED SINCE
12 THIS WAS A CALTRANS CONTRACTOR THAT WAS ENGAGED IN
13 THE ACTIVITY ON CALTRANS COMPENSATED TIME.

14 THE FPPC IS INVESTIGATING THE MATTER. SO
15 IT IS STILL UNDER REVIEW, BUT IT ILLUSTRATES THE
16 IMPORTANCE OF ENSURING THAT THE AGENCY DOES NOT
17 COORDINATE WITH ANY CAMPAIGN ACTIVITY ENGAGED IN BY
18 ANY OTHER GROUP.

19 SO THIS IS THE FINAL EXAMPLE I'LL GIVE
20 YOU. THIS WAS MEASURE RM3, A NINE-COUNTY REGIONAL
21 TRANSPORTATION MEASURE THAT APPEARED ON THE NOVEMBER
22 2018 BALLOT. I KNOW THIS IS A LITTLE BIT HARD TO
23 READ, BUT AC TRANSIT ON ITS BUSES HAS PLACARDS. AND
24 THEY INCLUDED PLACARDS THAT IDENTIFIED RM3, THE DATE
25 OF THE ELECTION, AND USED THE WORD "HELPING" AS IT

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1 WOULD HELP RELIEVE TRANSPORTATION CONGESTION. AND
2 OTHERWISE THE ONLY INFORMATION WAS A TELEPHONE
3 NUMBER TO CALL FOR MORE INFORMATION.

4 THE FPPC IS CURRENTLY INVESTIGATING THIS
5 PLACARD AS A MISUSE OF PUBLIC FUNDS EVEN THOUGH IT'S
6 ABOUT THE MOST ANODYNE THING YOU CAN POSSIBLY
7 IMAGINE.

8 SO, IN SUMMARY, THIS IS A COMPLEX AREA OF
9 LAW. IT'S ONE THAT DRAWS AN INCREDIBLE AMOUNT OF
10 SCRUTINY AND IN THIS PARTICULAR MOMENT IN TIME EVEN
11 MORE SCRUTINY THAN NORMAL. SO I WOULD URGE YOU ALL
12 TO REMAIN VIGILANT ABOUT YOUR USE OF PUBLIC
13 RESOURCES. IT IS IMPORTANT TO REMEMBER THAT
14 INDIVIDUALS IN YOUR OWN TIME YOU ARE FREE TO
15 CAMPAIGN, ENDORSE, OPPOSE, UNDERTAKE ANY ACTIVITIES
16 YOU WANT. YOU DON'T LEAVE YOUR FIRST AMENDMENT
17 RIGHTS AT THE DOOR WHEN YOU BECOME A PUBLIC
18 OFFICIAL, BUT YOU ARE REQUIRED TO BE EXTRAORDINARILY
19 CAREFUL WITH THE USE OF ANY AGENCY RESOURCES IN
20 CONNECTION WITH THE BALLOT MEASURE.

21 I'D BE HAPPY TO ANSWER ANY QUESTIONS.

22 CHAIRMAN THOMAS: WE'VE BEEN ADMONISHED IF
23 EVERYBODY COULD GET CLOSE TO THEIR MIC SO THEY PICK
24 IT UP, THOSE ON THE PHONE, IT'D BE GREAT. THANKS.

25 DR. BLUMENTHAL: JUST A QUICK QUESTION TO

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1 FOLLOW UP ON YOUR POINT ABOUT FREEDOM SPEECH OF
2 INDIVIDUAL MEMBERS OF THE BOARD. IF WE EXERCISE OUR
3 FREE SPEECH AND OUR RIGHT TO ADVOCATE FOR OR AGAINST
4 THE MEASURE, I ASSUME WE ARE ALLOWED TO IDENTIFY
5 OURSELVES AS MEMBERS OF THE BOARD, WHICH IS AN
6 IDENTIFICATION WITH THE AGENCY EVEN THOUGH WE ARE
7 NOT SPEAKING FOR THE AGENCY.

8 MR. HARRISON: CORRECT. THANK YOU FOR
9 MAKING THAT DISTINCTION. OFTENTIMES INDIVIDUALS
10 WILL BE ASKED TO SPEAK AT EVENTS OR BE IDENTIFIED AS
11 ENDORSERS. AND IT'S IMPORTANT UNDER THOSE
12 CIRCUMSTANCES THAT IN YOUR COMMUNICATION YOU'RE
13 CLEAR THAT YOU'RE IDENTIFYING YOURSELF AS A MEMBER
14 OF THE CIRM BOARD FOR IDENTIFICATION PURPOSES ONLY
15 AND SPEAKING ON YOUR OWN BEHALF. OR IF IT'S A PRINT
16 COMMUNICATION, THAT THERE'S A LITTLE ASTERISK NEXT
17 TO YOUR TIME AND TITLE THAT MAKES CLEAR IT'S FOR
18 COMMUNICATION PURPOSES ONLY AND DOESN'T IMPLY AN
19 ENDORSEMENT.

20 DR. MELMED: VERY HELPFUL. THANK YOU.
21 CAN YOU TELL US WHAT IS OUR STATUS AS A BOARD? WHAT
22 IS THE TIMELINE OF THIS BOARD? DO WE VOTE OURSELVES
23 OUT OF EXISTENCE? IS THERE A STATUTE?

24 MR. HARRISON: NO. THERE'S NO SUNSET.
25 OBVIOUSLY, IF THIS ADDITIONAL FUNDING MEASURE IS NOT

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1 APPROVED BY THE VOTERS AND NO OTHER FUNDS ARE
2 FORTHCOMING, THEN THE BOARD WOULD ESSENTIALLY BE
3 DEFUNCT, BUT THERE'S NO SUNSET IN THE LAW. SO
4 THEORETICALLY IT COULD CONTINUE; BUT IF IT HAS NO
5 BUSINESS, OBVIOUSLY THERE WOULD BE NO NEED TO MEET.

6 DR. MELMED: AND FOR THE INTERIM PRIOR TO
7 THE BALLOT?

8 MR. HARRISON: FOR THE INTERIM PRIOR TO
9 THE BALLOT, CIRM CONTINUES TO EXIST. IT HAS, AS IS
10 THE CASE TODAY, REMAINING FUNDS TO DISTRIBUTE, IT'S
11 LIKELY THAT ADDITIONAL FUNDS WILL BE RECAPTURED FROM
12 AWARDS THAT ARE TERMINATED EARLY, IN WHICH CASE
13 ADDITIONAL MEETINGS WILL BE SCHEDULED TO ALLOCATE
14 THOSE FUNDS.

15 CHAIRMAN THOMAS: I'LL BE SPEAKING MORE ON
16 THAT POINT, SHLOMO, WHEN I GET TO THE CHAIR'S
17 REPORT. THE SHORT ANSWER IS THE BOARD WILL CONTINUE
18 THROUGH THE ELECTION OR AT A MINIMUM THROUGH JUNE TO
19 MAKE SURE THAT THE BALLOT MEASURE HAS BEEN CERTIFIED
20 TO BE ON THE NOVEMBER BALLOT.

21 MR. HARRISON: THANK YOU.

22 CHAIRMAN THOMAS: THANK YOU, MR. HARRISON.

23 WE'RE GOING TAKE ONE MORE ITEM AT THE
24 MOMENT OUT OF ORDER. THAT'S THE CONSENT CALENDAR,
25 ITEMS 8 THROUGH 10. ANY QUESTIONS ABOUT ANY OF

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1 THOSE ITEMS? AND IF THERE AREN'T, WOULD LIKE TO
2 HAVE SOMEBODY ENTERTAIN A MOTION TO ADOPT.

3 MR. SHEEHY: YES, I HAVE QUESTIONS.
4 FIRST, THERE'S A CHANGE TO DONOR POLICY. SO I'M NOT
5 SURE WHAT THAT IS AND WHAT THAT MEANS. I THINK
6 THAT'S HOW IT'S DESCRIBED, CONSIDERATION OF
7 AMENDMENTS TO ADMINISTRATIVE FUNDS DONOR AGREEMENT
8 AND DISCLOSURE OF FUNDS RECEIVED. I DON'T KNOW WHAT
9 THAT IS.

10 CHAIRMAN THOMAS: I WILL SPEAK TO THAT.
11 AS YOU MAY RECALL, A NUMBER OF YEARS BACK, WE
12 RECEIVED TWO PLEDGES TOWARDS DEFRAYING
13 ADMINISTRATIVE COST. ONE WAS A \$5 MILLION PLEDGE
14 FROM BILL BOWES, ONE WAS A \$2 MILLION PLEDGE FROM
15 PITCH JOHNSON, TOTALING SEVEN. PER THE LATEST
16 DOCUMENT PRIOR TO THIS AMENDMENT, THE TIMETABLE FOR
17 THOSE GIFTS WAS ESTABLISHED TO HAVE THE FIRST HALF
18 OF EACH GIFT IN HAND BY EARLIER THIS YEAR AND THE
19 BALANCE TO BE COLLECTED EARLY NEXT YEAR.

20 WE HAVE THE FIRST HALF OF EACH OF THE
21 BOWES AND JOHNSON GIFTS IN HAND. I RECEIVED A CALL
22 FROM THE EXECUTIVE DIRECTOR OF MR. JOHNSON'S
23 FOUNDATION RELAYING A REQUEST FROM MR. JOHNSON THAT
24 THE SECOND \$1 MILLION PAYMENT THAT WOULD BE DUE
25 EARLY NEXT YEAR WOULD BE RESCHEDULED FOR DECEMBER

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1 31ST AS OPPOSED TO EARLIER IN THE YEAR, AND THE
2 ADDITIONAL REQUEST THAT IF THE BALLOT MEASURE PASSED
3 ON THE NOVEMBER BALLOT IN ADVANCE OF THAT DECEMBER
4 DATE, THAT HE BE EXCUSED OF THE OBLIGATION TO MAKE
5 THAT SECOND PAYMENT. IF THE MEASURE DIDN'T PASS, HE
6 WOULD MAKE THE PAYMENT PER THAT AMENDED SCHEDULE.

7 SO THE DOCUMENT YOU HAVE AS CONSENT ITEM
8 NO. 10 IS AN AMENDED AGREEMENT REFLECTING THAT
9 REQUEST.

10 MR. SHEEHY: THANK YOU. AND THEN WE ARE
11 APPOINTING NEW GRANTS WORKING GROUP MEMBERS, AND I'M
12 TRYING TO UNDERSTAND THE RATIONALE FOR THAT. I'M
13 NOT AWARE THAT WE ARE PLANNING ANY REVIEWS OTHER
14 THAN THOSE AROUND OUR SICKLE CELL INITIATIVE BECAUSE
15 FOR ALL RIGHTS AND PURPOSES WE'VE EXHAUSTED THE
16 FUNDING. SO I'M JUST TRYING TO FIGURE OUT WHY WE
17 ARE CONTINUING TO APPOINT GRANTS WORKING GROUP
18 MEMBERS.

19 CHAIRMAN THOMAS: I'LL ASK DR. SAMBRANO TO
20 ANSWER THAT QUESTION.

21 DR. SAMBRANO: A GREAT QUESTION. WHAT WE
22 ARE DOING IN THIS PARTICULAR CASE IS REAPPOINTMENTS
23 OF EXISTING MEMBERS JUST TO CONTINUE THEM ON TO A
24 SECOND TERM. WE WILL BE HAVING, JUST FOR
25 EVERYBODY'S KNOWLEDGE, AD HOC REVIEWS UNDER THE

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1 SICKLE CELL PROGRAM. SO IN TERMS OF FILLING OUT
2 PANELS, WE WANT TO JUST CONTINUE TO HAVE THE FULL
3 COHORT OF MEMBERS TO CHOOSE FROM, BUT THERE ARE NO
4 NEW MEMBERS THAT ARE BEING APPOINTED.

5 MR. SHEEHY: NONE OF THESE ARE RELATED TO
6 SICKLE CELL RESEARCH --

7 DR. SAMBRANO: CORRECT.

8 MR. SHEEHY: -- AS I LOOK AT THEIR BIOS.
9 I GUESS I GET NERVOUS ABOUT US TAKING TOO MANY
10 DECISIONS THAT WILL IMPACT THE POSTELECTION CIRM
11 BECAUSE IT WILL BE A DIFFERENT AGENCY IN SOME WAYS.
12 SO I DON'T REALLY OBJECT NECESSARILY. I THINK THESE
13 ARE ALL FINE INDIVIDUALS. I'VE BEEN IN REVIEWS WITH
14 AT LEAST TWO OF THEM, BUT I JUST THINK WE OUGHT NOT
15 TO PUSH TOO MUCH AHEAD BEFORE WE KNOW WHAT'S GOING
16 TO HAPPEN.

17 CHAIRMAN THOMAS: ANY OTHER QUESTIONS ON
18 ANY OF THE THREE CONSENT CALENDAR ITEMS? SO, MR.
19 SHEEHY, ARE YOU MOVING THAT ONE OF THE ITEMS BE
20 TAKEN OUT OF THE PROPOSED -- SOMEBODY WILL, I
21 ASSUME, PROPOSE A CONSENT MOTION.

22 MR. SHEEHY: I'M NOT MAKING ANY MOTION.

23 CHAIRMAN THOMAS: THANK YOU.

24 MR. SHEEHY: INFORMATION

25 CHAIRMAN THOMAS: THANK YOU. SO ANY OTHER

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1 QUESTIONS ON ANY OF THE THREE CONSENT ITEMS?

2 HEARING NONE, DO I HEAR A MOTION TO APPROVE THE
3 CONSENT ITEMS?

4 DR. STEWARD: SO MOVED.

5 CHAIRMAN THOMAS: MOVED BY DR. STEWARD.
6 IS THERE A SECOND?

7 DR. MARTIN: SECOND.

8 CHAIRMAN THOMAS: SECONDED BY DR. MARTIN.

9 WE CAN DO THIS ON A VOICE VOTE EXCEPT FOR THOSE ON
10 THE PHONE. ALL THOSE IN THE ROOM IN FAVOR PLEASE
11 SAY AYE. OPPOSED? ABSTAIN? MARIA, WILL YOU PLEASE
12 CALL THE ROLL.

13 MS. BONNEVILLE: DEBORAH DEAS.

14 DR. DEAS: YES.

15 MS. BONNEVILLE: DAVID HIGGINS.

16 DR. HIGGINS: YES.

17 MS. BONNEVILLE: ADRIANA PADILLA.

18 DR. PADILLA: YES.

19 MS. BONNEVILLE: AL ROWLETT.

20 MR. ROWLETT: YES.

21 MS. BONNEVILLE: KRISTINA VUORI.

22 DR. VUORI: YES.

23 MS. BONNEVILLE: DOUG ZIEDONIS.

24 DR. ZIEDONIS: YES.

25 MS. BONNEVILLE: THANK YOU. MOTION

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1 PASSES.

2 CHAIRMAN THOMAS: OKAY. THANK YOU,
3 EVERYBODY.

4 SO WE ARE NOW GOING TO GO BACK TO ACTION
5 ITEMS. THE FIRST IS NO. 4, CONSIDERATION OF
6 ALLOCATION OF REMAINING 2019 SCIENTIFIC RESEARCH
7 BUDGET. WE'RE GOING TO HEAR A PRESENTATION FROM JEN
8 ON THIS ITEM. SO WELCOME, JEN.

9 MR. TORRES: DO WE HAVE A QUORUM?

10 MS. BONNEVILLE: YES.

11 MS. LEWIS: GOOD MORNING, MEMBERS OF THE
12 BOARD, PUBLIC, AND THE CIRM TEAM. I AM JENNIFER
13 LEWIS, DIRECTOR OF GRANTS AND OPERATIONS. AND AS
14 CHAIRMAN THOMAS MENTIONED, I WILL BE PRESENTING THE
15 RESEARCH BUDGET TO DATE.

16 SO IN OCTOBER OF 2018, YOU WILL RECALL
17 THAT THE BOARD APPROVED A BUDGET ALLOCATION OF 93
18 MILLION FOR THE CLINICAL PROGRAM, 30 MILLION FOR THE
19 CURE SICKLE CELL INITIATIVE, \$20 MILLION FOR THE
20 TRANSLATION PROGRAM, AND 600,000 FOR THE EDUCATION
21 PROGRAM FOR A TOTAL OF \$143,600,000. TO DATE THE
22 BOARD HAS COMMITTED \$91,920,180 TO THIS 2019
23 ALLOCATION. THIS LEAVES A REMAINING BUDGET OF 23.6
24 MILLION IN THE CLINICAL PROGRAM, 27.7 MILLION IN THE
25 CURE SICKLE CELL INITIATIVE, AND \$233,592,203 IN THE

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1 TRANSLATION PROGRAM WITH A TOTAL REMAINING OF
2 \$51,679,829.

3 THIS NEXT SLIDE SHOWS THESE REMAINING 2019
4 BUCKET ALLOCATIONS. IN ADDITION, YOU WILL NOTICE
5 THAT THERE IS \$30,316,026 IN UNALLOCATED RECOVERED
6 FUNDS IN THE 2019 RESEARCH BUDGET. THIS BRINGS A
7 TOTAL BUDGET OF \$81,995,846 REMAINING IN THE
8 RESEARCH BUDGET AS A WHOLE. AND THE AVAILABLE
9 BUDGET, EXCLUDING THE SICKLE CELL ALLOCATION, IS
10 \$54,238,651.

11 YOU WILL ALSO NOTICE ON THE RIGHT-HAND
12 SIDE THAT TODAY YOU WILL BE CONSIDERING APPLICATIONS
13 IN THE CLINICAL PROGRAM THAT TOTAL \$40,931,706 AS
14 WELL AS APPLICATIONS IN THE TRANSLATION PROGRAM THAT
15 TOTAL \$16,192,982 FOR A TOTAL OF \$57,124,688.

16 WITH THAT, I'LL TAKE ANY QUESTIONS IF
17 THERE ARE ANY.

18 CHAIRMAN THOMAS: THANK YOU VERY MUCH,
19 JEN. A LOT OF WORK HAS GONE ON TO FIGURING ALL OF
20 THAT OUT, SO THANK YOU VERY MUCH FOR ALL YOUR HARD
21 WORK ON THIS.

22 I WOULD LIKE TO ENTERTAIN A MOTION THAT
23 WE, THE FULL BOARD, AS WE ARE NOW HEADING INTO
24 CONSIDERATION OF THE CLIN AND TRAN RECOMMENDATIONS,
25 THAT THE FULL BOARD AUTHORIZE THE APPLICATION REVIEW

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1 SUBCOMMITTEE TO USE ITS DISCRETION TO USE THE TOTAL
2 AVAILABLE AMOUNT OF FUNDS AVAILABLE, INCLUDING THOSE
3 STILL IN THE BUDGET PLUS THOSE COMING IN THROUGH THE
4 RECOVERED FUNDS, AND HAVE THAT BE THE POOL THAT THE
5 ARS WILL USE IN ITS DELIBERATIONS. ANYBODY LIKE TO
6 MOVE?

7 MR. SHEEHY: I'LL MAKE THAT MOTION, BUT
8 COULD I MAKE A FRIENDLY AMENDMENT, THAT WE
9 EXPLICITLY NOTE THAT WE ARE NOT INCLUDING THE CURE
10 SICKLE CELL FUNDS WITHIN THE AVAILABLE FUNDS. ALL
11 FUNDS MINUS THE ALREADY DEDICATED SICKLE CELL FUNDS?

12 CHAIRMAN THOMAS: THAT SHALL BE THE
13 MOTION. IS THERE A SECOND?

14 DR. BLUMENTHAL: SECOND.

15 CHAIRMAN THOMAS: SECONDED BY DR.
16 BLUMENTHAL. DISCUSSION BY MEMBERS OF THE BOARD?

17 DR. MARTIN: I HAVE A QUESTION, AND THAT
18 IS WHETHER WE ARE OBLIGATED TO SPEND THESE FUNDS BY
19 END OF THE YEAR OF THIS YEAR OR WHETHER WE CAN CARRY
20 OVER ANY OF THOSE FUNDS FOR FUNDING SOMETHING AFTER
21 THE FIRST OF THE YEAR? WHAT ARE THE CONSTRAINTS
22 THERE?

23 CHAIRMAN THOMAS: THE ANSWER TO THAT
24 QUESTION IS IT'S OUR DISCRETION TO DO WITH THE FUNDS
25 AS WE WISH. SO IF THAT IS A TOPIC FOR DISCUSSION AT

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1 THE END OF THIS, FEEL FREE TO BRING THAT UP.

2 ANY OTHER COMMENTS OR QUESTIONS BY MEMBERS
3 OF THE BOARD? HEARING NONE, ARE THERE ANY PUBLIC
4 COMMENTS? SEEING AND HEARING NONE, WE WILL PROCEED
5 TO A ROLL CALL VOTE. MARIA, PLEASE TAKE THE ROLL.

6 MS. BONNEVILLE: GEORGE BLUMENTHAL.

7 DR. BLUMENTHAL: YES.

8 MS. BONNEVILLE: LINDA BOXER. LARS
9 BERGLUND.

10 DR. BERGLUND: YES.

11 MS. BONNEVILLE: DEBORAH DEAS.

12 DR. DEAS: YES.

13 MS. BONNEVILLE: DAVID HIGGINS.

14 DR. HIGGINS: YES.

15 MS. BONNEVILLE: STEPHEN JUELSGAARD.

16 MR. JUELSGAARD: YES.

17 MS. BONNEVILLE: DAVE MARTIN.

18 DR. MARTIN: YES.

19 MS. BONNEVILLE: LAUREN MILLER.

20 MS. MILLER: YES.

21 MS. BONNEVILLE: ADRIANA PADILLA.

22 DR. PADILLA: YES.

23 MS. BONNEVILLE: AL ROWLETT.

24 MR. ROWLETT: YES.

25 MS. BONNEVILLE: JEFF SHEEHY.

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1 MR. SHEEHY: YES.

2 MS. BONNEVILLE: JONATHAN THOMAS.

3 CHAIRMAN THOMAS: YES.

4 MS. BONNEVILLE: ART TORRES.

5 MR. TORRES: AYE.

6 MS. BONNEVILLE: DOUG ZIEDONIS.

7 DR. ZIEDONIS: YES.

8 MS. BONNEVILLE: KRISTINA VUORI.

9 DR. VUORI: YES.

10 MS. BONNEVILLE: THANK YOU. MOTION

11 CARRIES.

12 CHAIRMAN THOMAS: THANK YOU, MARIA. WE'LL

13 GO ON NOW TO ACTION ITEM NO. 5, CONSIDERATION OF

14 APPLICATIONS SUBMITTED IN RESPONSE TO CLINICAL TRIAL

15 STAGE PROJECTS CLIN1, 2, OR 3. SHAYAM, WILL YOU

16 PLEASE PRESENT ON THIS?

17 DR. PATEL: GOOD MORNING. MR. SHEEHY, I'M

18 WAITING FOR YOU TO START THIS.

19 MR. SHEEHY: THANK YOU, DR. PATEL. WE ARE

20 OPENING THE APPLICATION REVIEW SUBCOMMITTEE AT THIS

21 POINT.

22 DR. PATEL: THANK YOU, MR. SHEEHY. AND

23 THANK YOU TO THE BOARD. IT'S MY PLEASURE TO PRESENT

24 THE CLINICAL APPLICATIONS TO YOU TODAY. AS YOU

25 KNOW, THE CLINICAL PROGRAM IS COMPOSED OF THREE

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1 DISTINCT FUNDING OPPORTUNITIES. TODAY I'LL BE
2 PRESENTING ONE CLIN 1 APPLICATION FOR IND-ENABLING
3 ACTIVITIES AND FOUR CLIN 2 APPLICATIONS FOR CLINICAL
4 TRIAL ACTIVITIES.

5 JUST A REMINDER OF THE SCORING MECHANISM
6 THE GRANTS WORKING GROUP USES. SO APPLICATIONS THEY
7 THINK HAVE EXCEPTIONAL MERIT, THEY GIVE IT A SCORE
8 OF 1. FOR THOSE THEY THINK NEED IMPROVEMENT AND DO
9 NOT WARRANT FUNDING AT THAT TIME BUT CAN BE
10 RESUBMITTED, THEY GIVE IT A SCORE OF 2. AND FOR
11 ONES THEY THINK ARE SUFFICIENTLY FLAWED AND DO NOT
12 WARRANT FUNDING AND SHOULD NOT BE REMITTED FOR SIX
13 MONTHS, THEY GIVE IT A SCORE OF 3.

14 WHEN THE YEAR STARTED, THE CIRM TEAM SET
15 INTERNAL TARGETS FOR THE NUMBER OF CLIN 2 AND CLIN 1
16 APPLICATIONS THAT WOULD BE EXPECTED GIVEN THE
17 FUNDING ALLOCATION. FOR CLIN2 WE EXPECTED EIGHT
18 APPLICATIONS, AND FOR CLIN1 WE EXPECTED TO FUND TWO
19 APPLICATIONS. TO DATE THE BOARD HAS APPROVED
20 FUNDING SEVEN CLIN 2 APPLICATIONS AND TWO CLIN1
21 APPLICATIONS. THIS, AGAIN, DOES NOT INCLUDE THE
22 SICKLE CELL ALLOCATION. IF YOU WERE TO APPROVE ALL
23 FIVE APPLICATIONS TODAY, WE WOULD HAVE ELEVEN CLIN2
24 APPLICATIONS AND THREE CLIN1 APPLICATIONS FOR THE
25 YEAR.

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1 SO I'M GOING TO GO THROUGH ALL FIVE OF
2 THESE APPLICATIONS AND THEN HAND IT OVER TO MR.
3 SHEEHY.

4 SO THE FIRST APPLICATION, AND, AGAIN, THIS
5 IN THE ORDER THAT THEY WERE REVIEWED AND SCORED BY
6 THE GRANTS WORKING GROUP, THE APPLICATION IS
7 CLIN1-11591, AND THIS IS AN IND-ENABLING PROJECT.
8 THE THERAPY ITSELF IS AUTOLOGOUS FOXP3 GENE-MODIFIED
9 CD4 T-CELLS. AND THE INDICATION IS IMMUNE
10 DYSREGULATION POLYENDOCRINOPATHY ENTEROPATHY
11 X-LINKED SYNDROME OR IPEX SYNDROME. AND THE GOAL
12 IS, AGAIN, THE IND FILING. AND THE FUNDS REQUESTED
13 ARE \$5,527,984 WITH ZERO DOLLARS FOR CO-FUNDING.
14 THE MAX ALLOWABLE FOR THIS PARTICULAR CATEGORY IS \$6
15 MILLION.

16 TO GIVE YOU A LITTLE BIT OF BACKGROUND ON
17 THE DISEASE AND THE THERAPY ITSELF, IPEX IS A RARE
18 AUTOIMMUNE DISORDER. IT IS CAUSED BY A FOXP3 GENE
19 MUTATION WHICH LEADS TO A LACK OF REGULATORY T-CELLS
20 AND IS FATAL IF UNTREATED, AND IT AFFECTS MULTIPLE
21 ORGAN SYSTEMS.

22 SO THE VALUE PROPOSITION OF THIS PROPOSED
23 THERAPY, FIRST I'M GOING TO GIVE YOU AN IDEA AS TO
24 WHAT THE BACKGROUND IS FOR THESE PATIENTS. THE
25 CURRENT STANDARD OF CARE, AS WITH MANY

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1 IMMUNE DISORDERS, IS CHRONIC IMMUNOSUPPRESSION OR
2 ALLOGENEIC HEMATOPOIETIC STEM CELL TRANSPLANT, THE
3 LATTER BEING A CURE. IMMUNOSUPPRESSION IS NOT
4 CURATIVE, AS YOU MAY IMAGINE. IT HAS SIGNIFICANT
5 SIDE EFFECTS. SIMILARLY, AS WITH HSCT, THERE ARE
6 SIGNIFICANT SIDE EFFECTS THERE AS WELL OR A LACK OF
7 MATCHED DONORS.

8 THERE ARE CURRENTLY THERAPIES BEING
9 DEVELOPED THAT WOULD BE GENE EDITING APPROACHES TO
10 THE FOXP3 MUTATION, BUT THERE ARE SEVERAL DIFFERENT
11 MUTATIONS THAT AFFECT THE FOXP3 GENE. SO IT'S A
12 CHALLENGE. WITH THIS PARTICULAR ASPECT, THIS
13 THERAPY IS GOING TO DELIVER FOXP3-ENGINEERED
14 T-CELLS, SO THERE WILL BE T-REG CELLS IN THE
15 PATIENT, AND IT COULD BE A BRIDGING THERAPY AND
16 COULD BE DURABLE IN THESE PATIENTS. ALSO, IT'S
17 IMPORTANT TO NOTE THAT, BECAUSE THESE ARE T-REGS,
18 THEY ALSO HAVE APPLICATIONS FOR OTHER AUTOIMMUNE
19 DISEASES WHERE T-REGS CAN PLAY THERAPEUTIC ROLE.

20 THIS IS THE FIRST VITAL RESEARCH
21 OPPORTUNITY GENE THERAPY PROJECT THAT IS UNDER YOUR
22 CONSIDERATION. SO AS YOU KNOW, EARLIER THIS YEAR
23 THE BOARD APPROVED GENE THERAPY APPLICATIONS CAN BE
24 SUBMITTED TO CIRM UNDER THE VITAL RESEARCH
25 OPPORTUNITY MECHANISM, AND THIS ONE IS ELIGIBLE

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1 UNDER THAT MECHANISM.

2 WE DO NOT CURRENTLY HAVE ANY PORTFOLIO
3 PROJECTS IN THE CLINICAL PROGRAM FOR IPEX. AND
4 WHILE THE APPLICANT HAS RECEIVED PREVIOUS FUNDING
5 FROM CIRM FOR THE SAME INDICATION, IT IS NOT FOR
6 THIS PARTICULAR PROJECT. AND SO WE ARE NOT
7 INFORMING YOU OF THAT IN HERE, BUT I CAN HAPPILY
8 SPEAK TO THAT IF YOU NEED ME TO.

9 WHEN THE GWG REVIEWED THIS APPLICATION,
10 THEY FIRST SCORED IT FOR THE VITAL RESEARCH
11 OPPORTUNITY ELIGIBILITY. AND WHEN THEY DID THAT,
12 ALL 22 VOTING MEMBERS, AND THIS INCLUDES BOTH
13 SCIENTIFIC AND PATIENT ADVOCATE MEMBERS, GAVE IT A
14 YES VOTE, MAKING IT ELIGIBLE FOR CIRM FUNDING. AND
15 THEN THEY SCORED THE APPLICATION FOR FUNDING
16 RECOMMENDATION. DURING THAT, 13 SCORED IT A TIER I
17 AND TWO SCORED IT A TIER II, MAKING THIS A TIER I
18 RECOMMENDATION FROM THE GRANTS WORKING GROUP. THE
19 CIRM TEAM CONCURS WITH THE GRANTS WORKING GROUP
20 RECOMMENDATION FOR THE AWARD AMOUNT OF \$5,527,984.

21 THE SECOND APPLICATION, THE REST OF THEM
22 ARE ALL GOING TO BE CLIN2. THIS IS CLIN2-11650, AND
23 THE THERAPY IS AUTOLOGOUS LIMBAL STEM CELLS FOR
24 CORNEAL LIMBAL STEM CELL DEFICIENCY. AND THE GOAL
25 OF THIS PARTICULAR PROJECT IS TO COMPLETE THE PHASE

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1 TRIAL.

2 THE FUNDS REQUESTED ARE \$10,301,486, AND
3 THERE IS A CO-FUNDING APPLIED TO THIS PROJECT OF
4 \$650,000, AND THE MAXIMUM FUNDS ALLOWABLE FOR THIS
5 CATEGORY IS \$12 MILLION.

6 SO LIMBAL STEM CELL DEFICIENCY, AND PLEASE
7 PARDON THE TYPO IN THE ACRONYM, IS A RARE CORNEAL
8 DISEASE WHERE THERE IS A LOSS OF CORNEAL STEM
9 PROGENITOR CELLS AND THEIR FUNCTION IS IMPAIRED.
10 THIS LEADS TO DECREASED VISION, DISCOMFORT, AND PAIN
11 FOR THE PATIENTS.

12 CURRENTLY THERE ARE NO APPROVED AUTOLOGOUS
13 TREATMENTS IN THE U.S. THE PROPOSAL IS AN
14 AUTOLOGOUS XENO-FREE THERAPY. SO HERE THIS IS A
15 CULTURAL PROCESS. THEY TAKE AUTOLOGOUS STEM CELLS,
16 THEY CULTURE THEM IN VITRO, AND THEY THEN INJECT
17 THEM INTO THE APPROPRIATE EYE WHICH WOULD BE AN
18 IMPROVEMENT OVER THE APPROVED THERAPY IN THE EU. SO
19 THERE IS IN EUROPE APPROVED THERAPY, BUT THAT USES
20 XENOGENEIC REAGENTS, AND THIS PARTICULAR APPROACH
21 DOES NOT HAVE THAT LIMITATION. AND THE CURRENT
22 STANDARD OF CARE IN THE U.S. IS ALLOGENEIC
23 TRANSPLANTATION, WHICH, AS YOU KNOW, WOULD REQUIRE
24 IMMUNOSUPPRESSION AS OTHER DRAWBACKS. THIS IS
25 ELIGIBLE FOR CIRM FUNDING BECAUSE IT INVOLVES LIMBAL

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1 STEM CELLS.

2 SO CIRM IS CURRENTLY SUPPORTING THE
3 APPLICANT'S IND-STAGE ACTIVITIES FOR THE SAME
4 PROJECT. I'M GOING TO PRESENT THAT IN THE NEXT
5 SLIDE, BUT WE DON'T CURRENTLY HAVE ANY OTHER LIMBAL
6 STEM CELL DEFICIENCY PROJECTS IN THE CLINICAL
7 PORTFOLIO.

8 THIS PARTICULAR PROJECT HAS BEEN SUPPORTED
9 BY CIRM FROM THE MANUFACTURING OPTIMIZATION UP TO
10 IND FILING. SO THE LATEST AWARD WAS A CLIN1 AWARD,
11 WHICH IS STILL ONGOING. IN THAT AWARD THEY'VE
12 ALREADY SUBMITTED AND FILED THE IND, WHICH IS WHY
13 IT'S ELIGIBLE FOR A CLIN2, BUT THEY ARE CURRENTLY
14 COMPLETING THE TRIAL START-UP ACTIVITIES. ALL FOUR
15 MILESTONES, THREE OF THEM WERE ACHIEVED, A COUPLE OF
16 THEM WITH DELAYS, MINOR DELAYS, AND THE LAST ONE IS
17 ONGOING RIGHT NOW.

18 WHEN THE GRANTS WORKING GROUP REVIEWED
19 THIS APPLICATION, 12 OF THE 15 VOTING MEMBERS GAVE
20 IT A SCORE OF 1 AND THREE GAVE IT A SCORE OF 2,
21 MAKING THIS A TIER I RECOMMENDATION FROM THE GRANTS
22 WORKING GROUP. THE CIRM TEAM RECOMMENDATION IS TO
23 CONCUR WITH THE GRANTS WORKING GROUP AND FUND THIS
24 APPLICATION FOR THE AWARD AMOUNT OF \$10,301,486.

25 ON TO THE THIRD APPLICATION. THIS IS ALSO

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1 A GENE THERAPY VITAL RESEARCH OPPORTUNITY
2 APPLICATION. THIS IS CLIN2-11661, AND THE THERAPY
3 IS AAV2-GDNF THERAPY, AND THE INDICATION IS
4 PARKINSON'S DISEASE. THE GOAL FOR THIS PARTICULAR
5 APPLICATION IS TO COMPLETE THE PHASE 1B TRIAL. THE
6 FUNDS THEY'RE REQUESTING IS \$7,998.962, AND THEY ARE
7 GOING TO BE PUTTING IN CO-FUNDING OF \$3.5 MILLION.
8 AND THE MAXIMUM FUNDS ALLOWABLE FOR THIS CATEGORY IS
9 \$8 MILLION.

10 AS YOU ALL KNOW, PARKINSON'S DISEASE IS A
11 PROGRESSIVE NEUROLOGICAL DISORDER AFFECTING ALMOST
12 ONE MILLION AMERICANS, AND ROUGHLY 60,000 AMERICANS
13 ARE NEWLY DIAGNOSED EACH YEAR.

14 SO PD IS CAUSED BY DOPAMINERGIC NEURONAL
15 CELL DEATH IN THE REGIONS OF THE BRAIN, ESPECIALLY
16 THE SUBSTANTIA NIGRA, AND PATIENTS EXPERIENCE BOTH
17 MOTOR SYMPTOMS, SUCH AS TREMORS AND IMPAIRED
18 BALANCE, AND NONMOTOR SYMPTOMS AFFECTING COGNITION
19 AND BEHAVIOR. THERE IS, OF COURSE, NO CURE
20 CURRENTLY FOR PD. LEVODOPA MEDICATION DOES CONTROL
21 MOTOR SYMPTOMS, BUT DOES LOSE EFFECTIVENESS. AS THE
22 DISEASE PROGRESSES, ADDITIONAL SYMPTOMS ARE
23 PRESENTED BY THE PATIENT. DEEP BRAIN STIMULATION
24 DOES CONTROL MOTOR SYMPTOMS IN PATIENTS THAT ARE
25 NONRESPONSIVE TO MEDICATION. AND THE PROPOSED

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1 SINGLE GDNF GENE THERAPY WOULD ACT BY PROTECTING
2 NEURONS AND REGENERATING THE DOPAMINERGIC TERMINALS.
3 IT HAS THE POTENTIAL TO PROVIDE SUSTAINED
4 SYMPTOMATIC RELIEF AS WELL AS DELAY OR REVERSE
5 DISEASE PROGRESSION, WHICH THE OTHER CURRENT
6 THERAPIES DO NOT HAVE.

7 THIS IS NOT A STEM CELL PROJECT, AS YOU
8 KNOW. THIS IS A GENE THERAPY APPROACH, AND IT IS
9 SUBMITTED UNDER THE VITAL RESEARCH OPPORTUNITY
10 MECHANISM. SO IN OUR PORTFOLIO WE DO HAVE ONE
11 CLINICAL STAGE PROJECT TARGETING PARKINSON'S
12 DISEASE. THIS IS A CLIN1 AWARD FOR IND-ENABLING
13 ACTIVITIES, AND THE CANDIDATE HERE IS ALLOGENEIC
14 NEURAL PROGENITOR CELLS THAT ARE ENGINEERED TO
15 SECRETE GDNF. SO FOR BOTH THAT ONE AND THE CURRENT
16 APPLICATION, THE MECHANISM WOULD BE GDNF-BASED
17 PROTECTION OF NEURONAL CELLS, BUT THE DELIVERY
18 MECHANISM, OF COURSE, IS VERY DIFFERENT.

19 THE APPLICANT DOES CURRENTLY HAVE FUNDING
20 FROM CIRM FOR THE SAME INDICATION, BUT NOT FOR THIS
21 PROJECT.

22 WHEN THIS APPLICATION WAS REVIEWED BY THE
23 GWG, THEY FIRST DID THE VITAL RESEARCH OPPORTUNITY
24 VOTE. TWENTY-ONE MEMBERS WERE VOTING FOR THIS AND
25 UNANIMOUSLY GAVE IT A YES VOTE. OF THE 15

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1 SCIENTIFIC MEMBERS WHO VOTED FOR A FUNDING
2 RECOMMENDATION, 13 GAVE IT A SCORE OF 1 AND TWO GAVE
3 IT A SCORE OF 2, MAKING THIS A TIER I RECOMMENDATION
4 FROM THE GRANTS WORKING GROUP. CIRM CONCURS WITH
5 THAT RECOMMENDATION. HOWEVER, WE DO WANT TO NOTE
6 THE BUDGET COMMENTS.

7 SO THE APPLICANT HAS REQUESTED \$7,998,962.
8 DURING THE REVIEW OF THIS APPLICATION, ALMOST HALF
9 OF THE GRANTS WORKING GROUP MEMBERS ADVISED CIRM
10 THAT CIRM SHOULD NOT FUND PROPOSED MANUFACTURING
11 ACTIVITIES THAT WOULD SUPPORT THE EVENTUAL PHASE 2/3
12 CLINICAL TRIAL. SO THIS PROJECT IS PROPOSING TO
13 CONDUCT MANUFACTURING ACTIVITIES AT THE SAME TIME
14 THAT THE PHASE 1B TRIAL WAS ONGOING; THUS, WITHOUT
15 HAVING ANY READOUTS FROM THAT PHASE 1B TRIAL,
16 FUNDING THE MANUFACTURING ACTIVITIES AT THE SAME
17 TIME TO ACCELERATE THE EVENTUAL START OF THE PHASE
18 2/3 TRIAL.

19 SO IF THE AWARD AMOUNT WERE TO REFLECT THE
20 GWG ADVICE TO REMOVE THE MANUFACTURING ACTIVITIES,
21 THE AWARD AMOUNT WILL BE \$5,510,462. AND THE CIRM
22 TEAM CONCURS WITH THE GWG ADVICE TO FUND THE AWARD
23 AMOUNT OF \$5,510,462, AND THE FINAL DECISION, OF
24 COURSE, RESTS WITH THE BOARD.

25 THE NEXT TWO APPLICATIONS ARE BOTH FOR

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1 RETINITIS PIGMENTOSA, AND I WILL DESCRIBE THE
2 BACKGROUND JUST FOR THE FIRST ONE AND THEN GIVE YOU
3 THE VALUE PROPOSITION FOR THE SECOND ONE WHEN WE GET
4 TO THAT STAGE.

5 SO THE FIRST ONE IS CLIN2-11620. THIS IS
6 AN ALLOGENEIC NEURAL PROGENITOR CELL THERAPY FOR
7 RETINITIS PIGMENTOSA. AND THE GOAL IS TO COMPLETE
8 THE PHASE 1/2A TRIAL. AND THEY'RE REQUESTING
9 \$10,494,682. THEY ARE NOT REQUIRED TO PROVIDE
10 CO-FUNDING, AND THE MAXIMUM FUNDS ALLOWABLE FOR THIS
11 CATEGORY IS \$12 MILLION.

12 AS MANY OF YOU KNOW, RETINITIS PIGMENTOSA
13 IS A GROUP OF GENETIC DISORDERS THAT CAUSES
14 PHOTORECEPTOR CELL DEATH LEADING TO PROGRESSIVE
15 VISION LOSS AND RESULTING IN TUNNEL VISION. IT CAN
16 ALSO IN SOME PATIENTS AFFECT THE CENTRAL VISION.
17 SYMPTOMS BECOME APPARENT IN CHILDHOOD, AND PATIENTS
18 BECOME LEGALLY BLIND IN MIDDLE AGE. RP IS A RARE
19 DISEASE THAT AFFECTS UP TO 109,000 AMERICANS. THERE
20 IS CURRENTLY NO CURE FOR MOST VARIANTS OF RETINITIS
21 PIGMENTOSA. LUXTURNA'S GENE THERAPY WAS RECENTLY
22 APPROVED AS A TREATMENT OPTION FOR A SMALL SUBSET OF
23 PATIENTS THAT HAVE MUTATIONS IN COPIES OF THE RPE65
24 GENE. THIS IS ONE OF MANY GENES AFFECTED BY THIS
25 DISEASE.

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1 THE PROPOSED CELL THERAPY HAS A POTENTIAL
2 TO IMPROVE OR STABILIZE THIS VISION BY PROTECTING
3 PHOTORECEPTORS IN A BROAD POPULATION OF RP PATIENTS.
4 THIS IS NOT LIMITED BY ANY PARTICULAR GENETIC
5 MUTATION. IT CAN HAVE BROAD APPLICATIONS. AND THIS
6 IS ELIGIBLE FOR CIRM FUNDING BECAUSE IT INCLUDES
7 NEURAL PROGENITOR CELLS.

8 WE DO HAVE ONE OTHER RELATED AWARD
9 CURRENTLY IN THE CIRM PORTFOLIO FOR RETINITIS
10 PIGMENTOSA. THIS IS AN ONGOING PHASE 2 TRIAL WHICH
11 IS STARTING ALLOGENEIC RETINAL PROGENITOR CELLS FOR
12 RP. AND THE MECHANISM OF ACTION IS SIMILAR BETWEEN
13 THE PROPOSED APPLICATION AND THE CURRENT TRIAL,
14 WHICH IS NEUROTROPHIC SUPPORT OF NEURAL RECEPTORS.

15 THIS PARTICULAR PROJECT HAS RECEIVED
16 PREVIOUS CIRM FUNDING. IT WAS A CLIN1 AWARD. THEY
17 SUCCESSFULLY ACHIEVED THE MILESTONES FOR THAT AWARD
18 AND HAVE FILED THE IND. ALL THREE MILESTONES WERE
19 ACHIEVED WITH SLIGHT DELAYS.

20 WHEN THE GRANTS WORKING GROUP REVIEWED
21 THIS APPLICATION, THEY UNANIMOUSLY GAVE IT A SCORE
22 OF TIER I, AND THE CIRM TEAM RECOMMENDATION IS TO
23 CONCUR WITH THE GWG AND FUND THIS APPLICATION FOR
24 THE AWARD AMOUNT OF \$10,494,682.

25 WE'RE ON TO THE LAST APPLICATION. THIS IS

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1 CLIN2-11472. AND, AGAIN, THIS IS ALSO FOR RETINITIS
2 PIGMENTOSA. THIS IS ALLOGENEIC RETINAL PROGENITOR
3 CELLS. THE PREVIOUS ONE WAS NEURAL PROGENITOR
4 CELLS. AND THE GOAL IS TO COMPLETE COMMERCIAL
5 MANUFACTURING, TECHNOLOGY TRANSFER, AND A PHASE 2
6 TRIAL. AND THE PHASE 2 TRIAL IS DESIGNED TO
7 RE-TREAT THE EYES THAT HAVE BEEN PREVIOUSLY TREATED
8 IN THE PREVIOUS TRIALS FOR THIS PARTICULAR THERAPY.

9 THE FUNDS REQUESTED ARE \$6,608,592. THEY
10 HAVE A CO-FUNDING AMOUNT OF ROUGHLY \$4.4 MILLION.
11 THE MAXIMUM OF FUNDS ALLOWABLE FOR THIS CATEGORY,
12 SINCE THIS IS A PHASE 2 TRIAL, IS \$15 MILLION.

13 AS I MENTIONED, I'M GOING TO SKIP THROUGH
14 THE CLINICAL BACKGROUND AND GIVE YOU THE VALUE
15 PROPOSITION. THIS PARTICULAR CELL THERAPY HAS THE
16 POTENTIAL TO STABILIZE OR IMPROVE VISION BY
17 PROTECTING PHOTORECEPTORS IN A BROAD POPULATION OF
18 RP PATIENTS. IT IS NOT LIMITED TO SPECIFIC SUBSETS.
19 THE THERAPY IS DELIVERED BY INTRAVITREAL INJECTION
20 WHICH IS LESS INVASIVE THAN SUBRETINAL DELIVERY
21 WHICH SHOULD BE WHAT LUXTURNA NEEDS.

22 SO IT IS A STEM CELL PROJECT BECAUSE THE
23 PROPOSED THERAPY INCLUDES RETINAL PROGENITOR CELLS.

24 SO AS I MENTIONED, WE DO HAVE AN ONGOING
25 PHASE 2 TRIAL, WHICH IS WHAT WE ARE SUPPORTING FOR

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1 THIS PARTICULAR APPLICANT. I'M GOING TO GO THROUGH
2 THE VARIOUS AWARDS THAT CIRM HAS GIVEN TO THIS
3 PARTICULAR APPLICANT. CIRM HAS BEEN SUPPORTING THIS
4 PROJECT FROM THE VERY BEGINNING FROM CANDIDATE
5 DISCOVERY THROUGH THE PHASE 2 TRIAL. WE ARE
6 CURRENTLY SUPPORTING THE ONGOING PHASE 2 TRIAL,
7 WHICH IS ON TRACK AND, AS YOU CAN SEE HERE, WE ARE
8 PRESENTING THE MILESTONES. SO IT HAS COMPLETED
9 ENROLLMENT EARLY. IT IS ON TRACK TO REPORT THE
10 PRIMARY ENDPOINT ANALYSIS, AND IT'S ALSO ON TRACK TO
11 SUBMIT THE FINAL STUDY REPORT.

12 AND THE GRANTS WORKING GROUP, WHEN THEY
13 REVIEWED THIS APPLICATION, 12 OF THE 15 MEMBERS GAVE
14 IT A SCORE OF 1, ONE MEMBER GAVE IT A SCORE OF 2,
15 AND TWO MEMBERS GAVE IT A SCORE OF 3, MAKING THIS IS
16 A TIER I RECOMMENDATION FROM THE GRANTS WORKING
17 GROUP.

18 MR. TORRES: GO BACK ONE SLIDE VERY
19 QUICKLY. THANK YOU.

20 DR. PATEL: THE CIRM TEAM CONCURS WITH THE
21 GWG RECOMMENDATION TO FUND THIS APPLICATION FOR THE
22 AWARD AMOUNT OF \$6,608,592.

23 WITH THAT, I'M GOING TO HAND IT BACK TO
24 YOU, MR. SHEEHY.

25 MR. SHEEHY: THANK YOU, DR. PATEL. SO AT

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1 THIS POINT WE CAN TAKE A MOTION TO FUND, AND WE HAVE
2 AN OPTION HERE. WE CAN EITHER TAKE A MOTION TO FUND
3 ALL OF THESE.

4 MR. JUELSGAARD: CAN WE ASK QUESTIONS?

5 MR. SHEEHY: OF DR. PATEL? IF YOU'D LIKE
6 TO.

7 MR. JUELSGAARD: DR. PATEL, COULD YOU GO
8 BACK TO SLIDE 23 PLEASE.

9 DR. PATEL: CERTAINLY. I HAVE TO FIGURE
10 OUT WHICH ONE IS SLIDE 23 FIRST.

11 MR. JUELSGAARD: SO WHAT ARE BEING
12 PROPOSED HERE ARE TWO PROJECTS, AT LEAST AS THIS
13 SLIDE APPEARS, THAT ARE IDENTICAL OR VERY SIMILAR IN
14 NATURE. WHAT WOULD YOU DESCRIBE AS THE DIFFERENCES
15 IN THE APPROACHES OF THESE TWO TRIALS? HOW ARE THEY
16 DIFFERENTIATED OTHER THAN WHO'S CONDUCTING THEM?

17 DR. PATEL: CERTAINLY. SO THE FIRST IS A
18 CELL POPULATION ITSELF. SO ONE OF THEM IS USING
19 NEURAL PROGENITOR CELLS AND THE OTHER ONE IS USING
20 RETINAL PROGENITOR CELLS, AND THE OTHER MAJOR
21 DIFFERENCE IS THE DELIVERY. FOR THE ONGOING PHASE 2
22 TRIAL, THE CELLS WILL BE DELIVERED INTRAVITREALLY,
23 WHICH IS LESS INVASIVE. AND FOR THE PROPOSED TRIAL
24 HERE IN 11620, THE CELLS WILL BE SUBRETINAL BECAUSE
25 THEY PROPOSE THAT THE CELLS NEED TO HAVE PROXIMITY

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1 TO THE PHOTORECEPTORS FOR OPTIMAL FUNCTION.

2 MR. JUELSGAARD: THANK YOU VERY MUCH.

3 MR. SHEEHY: THAT KIND OF BEGS THE
4 QUESTION.

5 DR. MARTIN: QUICK QUESTION. ARE THEY
6 BOTH USING PRECLINICAL ANIMAL MODELS THAT ARE
7 COMPARABLE, BOTH OF THESE INVESTIGATORS? IF THE
8 PRECLINICAL ACTIVITY AND MODELING, ARE THEY
9 DIFFERENT, VERY DIFFERENT, OR SIMILAR OR IDENTICAL?

10 DR. PATEL: SO I'M GOING TO CONFER WITH
11 DR. ABLA CREASEY, WHO'S BEEN MANAGING BOTH OF THE
12 AWARDS. I KNOW THAT FOR THE 11620, THEY USE
13 DIFFERENT RODENT MODELS, BUT FOR THE OTHER ONE
14 THAT'S BEFORE MY TIME. SO I'M HOPING THAT ABLA CAN
15 FILL IN.

16 DR. CREASEY: OKAY. I'M SORRY. I AM
17 LOSING MY VOICE.

18 BOTH GRANTS, THE STUDY BY SHAOMEI WANG,
19 WHICH IS THIS STUDY THAT'S ON THE SLIDE, UTILIZED
20 SIMILAR ANIMAL MODELS AS THE STUDY THAT IS DONE BY
21 DR. KLASSEN'S TEAM. AND THE DIFFERENCE, AS POINTED
22 OUT BY SHAYAM, IS THAT THE SUBRETINAL INJECTIONS
23 WERE UTILIZED IN THE PRECLINICAL MODELS FOR THIS
24 GRANT, THE ONE ON THE SLIDE, VERSUS INTRAVITREAL
25 INJECTIONS IN THE ANIMALS WITH KLASSEN'S TEAM.

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1 THE ANIMAL MODELS, THERE'S ONLY FINITE
2 NUMBER OF ANIMAL MODELS, AND THEY'RE BOTH UTILIZED
3 FOR FURTHERING THE PHENOMENA OR THE HYPOTHESIS THAT
4 THEY ARE ADVOCATING FOR FOR THE SAME INDICATION WITH
5 TWO DIFFERENT CELLS TYPES, TWO DIFFERENT MODES OF
6 DELIVERY.

7 DR. MARTIN: THE RP WAS THE SAME IN THE
8 ANIMALS? THE RP WAS THE GENETIC MODEL IN THE
9 RODENTS?

10 DR. CREASEY: THEY USE RCS RATS. AND,
11 YES, SIMILAR ANIMALS, SIMILAR RP MODEL.

12 BY THE WAY, I JUST WANT TO ACCENTUATE THE
13 JCYTE GRANT HAS ALREADY MOVED ALL THE WAY THROUGH TO
14 PHASE 2B WHILE THE SHAOMEI WANG AND DR. SVENDSEN'S
15 GRANT IS STARTING A PHASE 1 TRIAL WITH THE
16 SUBRETINAL INJECTIONS. THEY'RE VERY DIFFERENT BY
17 ASSESSING, FIRST OF ALL, DIFFERENT CELL TYPES,
18 DIFFERENT MODES OF DELIVERY, PLUS VERY DIFFERENT IN
19 TERMS OF STAGE OF DEVELOPMENT. WE HAVE CLINICAL
20 DATA WITH ONE AND MAINLY PRECLINICAL DATA WITH THE
21 OTHER.

22 DR. MARTIN: THANKS.

23 MR. SHEEHY: WE HAVE A CHOICE HERE, AND I
24 LEAVE IT UP TO THE MEMBERS OF THE COMMITTEE. WE
25 COULD TAKE THEM ALL AS A GROUP, ALL FIVE. AND WE

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1 HAVE ALREADY 23 MILLION ALLOCATED SPECIFICALLY FOR
2 THE CLINICAL ROUND. AND WE GOT ABOUT 30 BACK. AND
3 SO THE DELTA BETWEEN THAT IS AROUND 14 MILLION, SO
4 IT'S LESS THAN HALF OF OUR RETURNED FUNDS WOULD GO
5 TO THE CLINICAL, OR WE TAKE THEM INDIVIDUALLY AND
6 VOTE ONE BY ONE. THAT'S ASSUMING THAT WE INCLUDE
7 THE COST -- THE REDUCTION IN THE APPLICATION WHERE
8 THE CIRM TEAM CONCURRED WITH THE GRANTS WORKING
9 GROUP IN REMOVING THE MANUFACTURING ACTIVITIES. SO
10 IT'S REALLY -- I'M AGNOSTIC EITHER WAY PEOPLE WANT
11 TO GO. WE CAN DO IT AS A GROUP OR ONE BY ONE.

12 MR. TORRES: I BELIEVE IN GOD, AND I MOVE
13 THEM ALL.

14 MR. JUELSGAARD: I'M NOT SECONDING.
15 THERE'S A MOTION ON THE TABLE.

16 MR. SHEEHY: THERE'S A MOTION WITHOUT A
17 SECOND UNLESS SOMEONE --

18 CHAIRMAN THOMAS: SECOND.

19 MR. SHEEHY: SECOND FROM CHAIRMAN THOMAS.
20 WE DO HAVE A MOTION. JUST TO RESTATE THE MOTION, IT
21 IS TO FUND ALL FIVE CLINICAL APPLICATIONS ACCEPTING
22 THE CIRM TEAM RECOMMENDATION TO REDUCE THE
23 APPLICATION BY REMOVING THE MANUFACTURING ELEMENT IN
24 THAT ONE APPLICATION.

25 MR. JUELSGAARD: MY QUESTION WAS ON THE

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1 SLIDE THAT WAS PRESENTED ABOUT THE BUDGET. THAT'S
2 AVAILABLE. THE 40,931,706 UNDER APPLICATIONS FOR
3 CONSIDERATION TODAY FOR CLINICAL, THAT \$40,931,000
4 ODD NUMBER OF DOLLARS EXCLUDES THE ROUGHLY TWO AND A
5 HALF MILLION FOR MANUFACTURING?

6 MR. SHEEHY: NO, IT INCLUDES IT. SO
7 INCLUDES IT. I ADDED IT UP ON MY SHEET.

8 MR. JUELSGAARD: SO THE 40,930 IS THE BIG
9 NUMBER?

10 MR. SHEEHY: YEAH. SO THE ACTUAL NUMBER
11 FOR ALL THESE APPLICATIONS IS 37.9 ROUGHLY. AND SO
12 IF YOU LOOK, WE HAVE 23 ROUGHLY STILL IN THE CLIN
13 BUDGET WHICH IS ALREADY DEDICATED. WE REALLY ARE
14 OBLIGATED TO SPEND THAT ON CLIN, AND HAVE ABOUT 30
15 COMING BACK. SO THAT LEAVES US ABOUT 14, WHICH
16 STILL LEAVES A SLIGHT MAJORITY OF THE FUNDS
17 REMAINING TO USE IN THE TRANSLATION ROUND.

18 SO WE HAVE A MOTION. IS THERE ANY
19 ADDITIONAL BOARD DISCUSSION ON THIS MOTION? THEN
20 COULD I GET ANY PUBLIC COMMENT ON THIS MOTION?

21 MR. REED: THESE ARE SUPERB GRANTS, AND I
22 SUPPORT THEM ALL. MY QUESTION IS WITH THE EXTRA \$2
23 MILLION THAT WAS BROUGHT, THERE IS ANOTHER GRANT
24 PROPOSAL FOR EPILEPSY. AND I WONDER WOULD THAT MAKE
25 THAT POSSIBLE? WOULD THAT EXTRA MONEY MAKE THAT

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1 POSSIBLE? THAT'S MY QUESTION.

2 MR. SHEEHY: THAT'S IN THE TRANSLATION
3 ROUND. I WOULDN'T SAY WHETHER IT MAKES IT POSSIBLE
4 OR IMPOSSIBLE. WE STILL WILL BE SHORT OF -- IF WE
5 INCLUDE THAT APPLICATION, WE STILL WILL BE SHORT ON
6 TRANSLATION FUNDING.

7 MR. REED: THANK YOU.

8 MR. SHEEHY: ANY ADDITIONAL PUBLIC
9 COMMENT? THEN COULD WE CALL THE ROLL PLEASE.

10 MS. BONNEVILLE: DAVID HIGGINS.

11 DR. HIGGINS: YES.

12 MS. BONNEVILLE: STEVE JUELSGAARD.

13 MR. JUELSGAARD: YES.

14 MS. BONNEVILLE: DAVE MARTIN.

15 DR. MARTIN: YES.

16 MS. BONNEVILLE: LAUREN MILLER.

17 MS. MILLER: YES.

18 MS. BONNEVILLE: ADRIANA PADILLA.

19 DR. PADILLA: YES.

20 MS. BONNEVILLE: AL ROWLETT.

21 MR. ROWLETT: YES.

22 MS. BONNEVILLE: JEFF SHEEHY.

23 MR. SHEEHY: YES.

24 MS. BONNEVILLE: OS STEWARD.

25 DR. STEWARD: YES, EXCEPT FOR THOSE WITH

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1 WHICH I HAVE CONFLICTS.

2 MS. BONNEVILLE: JONATHAN THOMAS.

3 CHAIRMAN THOMAS: YES.

4 MS. BONNEVILLE: ART TORRES.

5 MR. TORRES: AYE.

6 MS. BONNEVILLE: THE MOTION CARRIES.

7 MR. SHEEHY: THANK YOU. NOW I BELIEVE WE
8 WILL TAKE UP THE TRANSLATION APPLICATIONS. AND THEN
9 IF WE CAN GET A CALCULATION OF WHAT REMAINING FUNDS
10 WE HAVE LEFT.

11 DR. SAMBRANO: MR. SHEEHY, I PUT UP THE
12 SPREADSHEET. SO WHAT REMAINS IS HIGHLIGHTED IN
13 ORANGE. SO THIS IS AFTER APPROVAL AND ADJUSTMENT OF
14 THE ONE APPLICATION FOR THOSE MANUFACTURING
15 ACTIVITIES. SO IT LEAVES YOU WITH JUST OVER \$15
16 MILLION REMAINING FOR THE TRAN.

17 MR. SHEEHY: DO YOU HAVE A CALCULATION --
18 I NOTICE THAT YOU HAVE GWG RECOMMENDED. DO YOU HAVE
19 A CALCULATION LOOKING AT 15.8 MILLION MEASURED
20 AGAINST THE GWG RECOMMENDED APPLICATIONS?

21 DR. SAMBRANO: FOR TRAN?

22 MR. SHEEHY: YEAH.

23 DR. SAMBRANO: YES. I'LL SHOW YOU THAT IN
24 THE SLIDE.

25 THANK YOU VERY MUCH. GOOD MORNING,

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1 EVERYONE. I'M GOING TO JUST PRESENT TO YOU THE GWG
2 RECOMMENDATIONS RELATED TO THE TRAN PROGRAM. AND
3 JUST AS A BRIEF OVERVIEW, SO JUST AS A REMINDER, THE
4 TRAN PROGRAM FITS RIGHT IN THE MIDDLE OF OUR FUNDING
5 OPPORTUNITIES. IT BASICALLY TAKES AND ADVANCES
6 PROGRAMS THAT HAVE CONDUCTED DISCOVERY STAGE WORK
7 AND TAKES THEM AND FEEDS THEM INTO OUR CLINICAL
8 PROGRAM. SO, FITTINGLY, THE WORK SUPPORTS PROMISING
9 STEM CELL-BASED PROJECTS THAT WILL ACCELERATE
10 COMPLETION OF THESE TRANSLATIONAL STAGE ACTIVITIES
11 BOTH FOR THE CLINIC AND ALSO FOR BROAD END USE.
12 ALSO, JUST A NOTE, NORMALLY THIS PROGRAM ALSO FUNDS
13 OTHER TYPES OF THERAPEUTIC -- OTHER TYPES OF
14 PRODUCTS SUCH AS DIAGNOSTICS, DEVICES, AND TOOLS.
15 IN THIS PARTICULAR CASE, WE LIMITED THIS YEAR ONLY
16 TO THERAPEUTICS. SO YOU WILL ONLY SEE APPLICATIONS
17 FOR THAT END.

18 AND THESE PROJECTS THAT ARE PROPOSED
19 CERTAINLY NEED TO BE AT A STAGE OF READINESS THAT
20 ALLOWS THEM TO ENGAGE IN THESE TRANSLATIONAL
21 ACTIVITIES. AND SO THAT'S PART OF HOW THEY ARE
22 EVALUATED. THEY HAVE TO HAVE A SINGLE THERAPEUTIC
23 CANDIDATE THAT HAS SUFFICIENT EVIDENCE TO SHOW THAT
24 THERE IS DISEASE MODIFYING ACTIVITY TO ENGAGE IN
25 ACTIVITIES. AND AT THE END OF THE 30-MONTH PERIOD

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1 OR SO, THEY'RE ALLOWED 30 MONTHS TO DO THIS, AND UP
2 TO \$4 MILLION TO COMPLETE A PRE-IND MEETING. SO
3 THOSE ARE THE GOALS OF THE TRAN PROJECT.

4 THE SCORING FOR THESE PROJECTS IS ALSO
5 DIFFERENT FROM CLIN. SO AS OPPOSED TO THE 1-2-3
6 SYSTEM, THE SCORING SYSTEM HERE IS FROM ONE TO A
7 HUNDRED. SO APPLICATIONS THAT FALL IN THE RANGE OF
8 85 TO A HUNDRED MEANS THAT THEY ARE RECOMMENDED FOR
9 FUNDING IF FUNDS ARE AVAILABLE. AND IF THEY SCORE
10 BELOW THAT, THEN THEY'RE NOT RECOMMENDED FOR
11 FUNDING. AND THIS SCORE IS BASED ON THE MEDIAN
12 SCORE GIVEN BY ALL INDIVIDUAL GRANTS WORKING GROUP
13 MEMBERS IN ORDER TO DETERMINE THAT SCORE.

14 SO JUST HERE'S THE SUMMARY TABLE OF THE
15 APPLICATIONS THAT YOU'RE THEN CONSIDERING TODAY. SO
16 THERE ARE THREE THAT ARE RECOMMENDED FOR FUNDING,
17 AND SO THE TOTAL APPLICANT REQUEST OF THOSE THREE IS
18 ABOUT 10.9 MILLION. AND THEN THERE IS ONE THAT WAS
19 CARRIED OVER FROM OUR LAST MEETING THAT IS NOT
20 RECOMMENDED FOR FUNDING, AND THAT ONE IS REQUESTING
21 ABOUT 5.2 MILLION.

22 SO I CAN GIVE YOU A BRIEF OVERVIEW OF EACH
23 OF THESE APPLICATIONS JUST TO REMIND YOU OF THESE OR
24 AT LEAST LET YOU KNOW WHAT THEY'RE ABOUT.

25 THE FIRST APPLICATION IS TRAN1-11536. AND

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1 SO THIS ONE IS ENTITLED "EX VIVO GENE EDITING OF
2 HUMAN HEMATOPOIETIC STEM CELLS FOR THE TREATMENT OF
3 X-LINKED HYPER-IGM SYNDROME." SO X-LINKED HYPER-IGM
4 SYNDROME IS A RARE IMMUNE DEFICIENCY. THERE'S AN
5 ABSENCE OF IMMUNOGLOBULINS, SUCH AS IGG, IGA, IGE.
6 THE PATIENTS SUFFER FROM OPPORTUNISTIC INFECTIONS,
7 PARASITIC INFECTIONS BOTH PULMONARY AND GI, AND THEY
8 HAVE AN INCREASED RISK OF MALIGNANCIES.

9 THE APPROACH THAT THE APPLICANTS ARE
10 TAKING IS AN EX VIVO GENE CORRECTION OF AUTOLOGOUS
11 HEMATOPOIETIC STEM CELLS WHERE THEY ARE USING CRISPR
12 CAS9 TO CORRECT CD40 LIGAND, WHICH IS THE GENE THAT
13 IS DEFECTIVE IN THIS PARTICULAR CASE.

14 THIS APPLICATION RECEIVED A SCORE OF 92,
15 SO THIS WAS THE TOP SCORING APPLICATION. WE HAD 15
16 MEMBERS OF THE WORKING GROUP WHO ALL SCORED IT IN
17 THIS FUNDING RANGE. AND IN TERMS OF JUST GENERAL
18 PORTFOLIO, WE DON'T HAVE ANY OTHER PROJECTS THAT ARE
19 FOCUSED ON THIS PARTICULAR INDICATION, BUT OVERALL
20 WE HAVE 23 THAT USE SOME KIND OF GENE-MODIFIED CELL
21 THERAPY TO ADDRESS A BLOOD OR IMMUNE DISORDER.

22 THE NEXT APPLICATION IS 11555. SO THIS IS
23 ENTITLED "BCMA/CS1 BISPECIFIC CAR-T CELL THERAPY TO
24 PREVENT ANTIGEN ESCAPE IN MULTIPLE MYELOMA" SO THIS
25 IS A CAR-T CELL THERAPY, WHICH MANY OF YOU HAVE

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1 ALREADY HEARD US TALK ABOUT HERE BEFORE. IT IS AN
2 AUTOLOGOUS THERAPY, AS MOST CAR-T THERAPIES ARE,
3 THAT USES A BISPECIFIC FORMULA BOTH TARGETING
4 ANTIGEN BCMA AND CS1 THAT EXIST ON MULTIPLE MYELOMA
5 CELLS. AND IDEA BEHIND THIS IS TO OVERCOME A
6 PHENOMENON WHERE SOME PATIENTS ARE BCMA NEGATIVE OR
7 BECOME BCMA NEGATIVE WHICH MAY CAUSE RELAPSE. SO
8 THE GOAL IS THROUGH THIS BISPECIFICITY YOU CAN
9 OVERCOME THAT.

10 THE SCORE THIS APPLICATION RECEIVED WAS AN
11 85. THERE WERE TEN MEMBERS THAT SCORED IT WITHIN
12 THE FUNDING RANGE AND FIVE THAT SCORED IT BELOW.
13 THERE ARE TWO OTHER PROJECTS THAT WE HAVE IN OUR
14 PORTFOLIO FOR MULTIPLE MYELOMA. ONE IS A CLIN1 AND
15 ONE IS A TRAN AND FIVE ADDITIONAL CAR-T PROJECTS.

16 THE NEXT APPLICATION IS 11544. THIS ONE
17 IS ENTITLED "NEURAL STEM CELL MEDIATED ONCOLYTIC
18 IMMUNOTHERAPY FOR OVARIAN CANCER." THIS IS A CELL
19 THERAPY WHERE THEY ARE TAKING ALLOGENEIC NEURAL STEM
20 CELLS, WHICH ARE TUMOROTROPIC, MEANING THEY TARGET
21 TUMOR CELLS, AND THEY'LL USE THOSE TO TARGET THE
22 OVARIAN CANCER AND DELIVER A PAYLOAD OF ONCOLYTIC
23 VIRUS. SO THIS USES A CONDITIONALLY REPLICANT
24 COMPETENT VIRUS, WHICH MEANS IT WILL SELECTIVELY
25 INFECT AND REPLICATE WITHIN TUMOR CELLS AND NOT

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1 NORMAL CELLS. SO IT IS SOMEWHAT SPECIFIC --
2 THIS APPLICATION RECEIVED A SCORE OF 85.
3 THERE WERE NINE MEMBERS WHO SCORED IT IN THE FUNDING
4 RANGE AND SIX MEMBERS WHO DID NOT. WE HAVE THREE
5 OTHER PROJECTS THAT ADDRESS OVARIAN CANCER, BUT
6 THEY'RE ALL AT THE DISCOVERY STAGE. SO THEY'RE
7 EARLIER THAN THIS PROPOSAL. AND THIS PROPOSAL'S
8 APPROACH IS ALSO QUITE UNIQUE WITHIN OUR PORTFOLIO.
9 AND AS MENTIONED, WE HAVE ONE APPLICATION
10 THAT WAS NOT RECOMMENDED, BUT WE CARRIED THAT
11 FORWARD PER THE REQUEST OF THE BOARD AT OUR LAST
12 MEETING. SO THIS IS APPLICATION 11611. AND IT'S
13 ENTITLED "DEVELOPMENT OF HUMAN STEM CELL-DERIVED
14 INHIBITORY NEURON THERAPEUTIC FOR THE TREATMENT OF
15 CHRONIC FOCAL EPILEPSY." SO THE INDICATION IS DRUG
16 RESISTANT CHRONIC TEMPORAL LOBE EPILEPSY. AND THEIR
17 APPROACH IS AN ALLOGENEIC USE OF HUMAN EMBRYONIC
18 STEM CELL-DERIVED INHIBITORY NEURAL CELLS THAT WOULD
19 BE TRANSPLANTED INTO THE SEIZURE FOCAL AREA IN THE
20 BRAIN IN ORDER TO REDUCE OR ELIMINATE THE SEIZURES.
21 THERE IS A SIGNIFICANT FRACTION OF PATIENTS WHO
22 DON'T ADEQUATELY RESPOND TO ANTI-EPILEPTIC
23 MEDICATION. AND SO THIS IS OFFERED AS AN
24 ALTERNATIVE TO WHAT MAY OTHERWISE BE A SURGICAL
25 RESECTION.

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1 AND THIS APPLICATION RECEIVED A SCORE OF
2 78, SO IN THE DO NOT FUND RANGE. THERE WERE ZERO
3 MEMBERS WHO SCORED THE APPLICATION IN THE FUNDING
4 RANGE AND 15 THAT SCORED IT IN THE DO NOT FUND
5 RANGE. WE DON'T HAVE ANY OTHER EPILEPSY PROJECTS
6 WITHIN OUR PORTFOLIO. MR. SHEEHY.

7 MR. SHEEHY: THANK YOU, DR. SAMBRANO.

8 AGAIN, WE HAVE THE CHOICE WHETHER TO TAKE
9 SOME OF THESE IN GROUPS. I CLEARLY FELT FROM THE
10 LAST TRANSLATION ROUND THAT THE COMMITTEE WAS
11 COMMITTED TO FUNDING OR HAD A STRONG DESIRE TO
12 CONSIDER FUNDING THE THREE APPLICATIONS THAT WERE
13 RECOMMENDED BY THE GRANTS WORKING GROUP. WE CAN
14 TAKE THOSE AS A GROUP IF MEMBERS WOULD WANT OR WE
15 CAN TAKE THEM INDIVIDUALLY. I WOULD TAKE A MOTION
16 EITHER WAY.

17 MR. JUELSGAARD: I MOVE THAT WE FUND THE
18 THREE PROJECTS THAT WERE AGREED TO BY THE GRANTS
19 WORKING GROUP.

20 MR. SHEEHY: DO I HAVE A SECOND?

21 CHAIRMAN THOMAS: SECOND.

22 MR. SHEEHY: SECOND FROM CHAIRMAN THOMAS.
23 BOARD DISCUSSION? DO WE HAVE ANY PUBLIC COMMENT ON
24 THIS ITEM?

25 MR. REED: 78 IS NOT THAT FAR FROM 85 WHEN

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1 WE ARE TALKING ABOUT SOMETHING THAT WE DON'T HELP
2 NOW. EPILEPSY IS A VICIOUS CONDITION. I'VE DONE
3 SOME READING ABOUT IT, AND IT'S A GREAT SUFFERING
4 THING. IF THERE IS SOME MONEY AT ALL AND IF THIS IS
5 A CLOSE THING -- I REALIZE THERE'S NOBODY THERE THAT
6 SAID, YES, WE SHOULD FUND IT -- BUT 78, 85, WHAT IF
7 THIS HAS POSSIBILITIES? I'D LIKE TO HAVE THAT ONE
8 DISCUSSED.

9 MR. SHEEHY: THANK YOU, MR. REED. ANY
10 MORE PUBLIC COMMENT?

11 DR. MARTIN: I HAVE --

12 DR. NICHOLAS: HI. MY NAME IS COREY
13 NICHOLAS. I'M THE PI ON THIS EPILEPSY PROPOSAL, 611
14 TRAN, TO DEVELOP AN INHIBITORY NEURON THERAPY
15 DERIVED FROM HUMAN EMBRYONIC STEM CELLS FOR THE
16 TREATMENT OF FOCAL EPILEPSIES. I WANTED TO JUST
17 HIGHLIGHT A COUPLE OF THINGS THAT MAKE OUR PROPOSAL
18 UNIQUE.

19 THE FIRST IS THAT EPILEPSY, AS GIL
20 MENTIONED, HAS BEEN UNDERSERVED HERE. JUST A QUICK
21 COUNT, I THINK THERE ARE OVER 50 ACTIVE AWARDS FOR
22 CANCERS AND BLOOD DISORDERS, ZERO FOR EPILEPSY.
23 WE'VE BEEN THE ONLY GROUP DEVELOPING THIS THERAPY.
24 AND EPILEPSY, AS YOU MAY KNOW, IS THE FOURTH MOST
25 COMMON NEUROLOGICAL DISEASE THAT AFFECTS OVER HALF A

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1 MILLION CALIFORNIANS. OVER A THIRD OF THESE
2 PATIENTS ARE MULTIPLE DRUG RESISTANT. THEY HAVE
3 ZERO EFFECTIVE OPTIONS. AND THESE ARE FOLKS WHERE
4 IT CAN BE FATAL. AND IF IT'S NOT, THESE PATIENTS
5 CAN'T DRIVE, THEY CAN'T WORK, THEY CAN'T LIVE
6 INDEPENDENTLY. SO IT'S A HUGE UNMET NEED.

7 AND THE SECOND QUALITY I WANTED TO
8 HIGHLIGHT IS THAT I THINK WE ARE ONE, IF NOT THE
9 ONLY, GRANT LEFT THAT ARE USING HUMAN EMBRYONIC STEM
10 CELLS TO DERIVE THE THERAPY, WHICH IS CONSISTENT
11 WITH THE ORIGINAL CIRM MANDATE.

12 AND WE TAKE THESE EMBRYONIC STEM CELLS, WE
13 DERIVE THE INHIBITORY NEURONS NOW IN MASS
14 QUANTITIES, AND WE HAVE THIS VERY WELL POSITIONED TO
15 TAKE IT TO A CLINICAL TRIAL IN TWO YEARS. WE'VE
16 BEEN SUPPORTED BY CIRM SINCE THE EARLY DAYS, BACK IN
17 THE COMPREHENSIVE GRANT. WE STARTED THIS PROGRAM
18 FROM SCRATCH AT UCSF, AND WE'VE ADVANCED ALL THE WAY
19 NOW TO THE DOORSTEP HERE OF A CLINICAL TRIAL. AND
20 WE JUST HAD A POSITIVE INTERACT MEETING WITH THE
21 SUCCESSFUL COMPLETION OF OUR QUEST AWARD, WHICH WE
22 EXECUTED AHEAD OF SCHEDULE; AND I THINK WITH YOUR
23 SUPPORT, WE ARE VERY WELL POSITIONED TO TAKE THIS TO
24 PATIENTS.

25 JUST A QUICK COMMENT ON THE MAJOR CRITIQUE

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1 FROM THE GRANTS GROUP. THE MAJOR CRITIQUE WAS THAT
2 WE DID NOT FULLY DISCLOSE OUR MANUFACTURING PROCESS.
3 WE WERE ALLOWED TO PROVIDE A SUPPLEMENTAL PACKAGE,
4 WHICH, SHORT OF DISCLOSING THE EXACT IDENTITIES OF
5 THE REAGENTS, WE DESCRIBED THE CATEGORIES OF THE
6 REAGENTS THAT WE WERE OPTIMIZING, AND WE FELT THAT
7 WAS SUFFICIENT TO INFORM THE GRANTS WORKING GROUP.
8 I'M HAPPY TO ANSWER ANY QUESTIONS ON TECHNICAL MERIT
9 OR OTHERWISE, AND I THANK YOU FOR YOUR
10 CONSIDERATION.

11 MR. SHEEHY: THANK YOU. ANY OTHER PUBLIC
12 COMMENT?

13 DR. KRIEGSTEIN: THANK YOU. MY NAME IS
14 DR. ARNOLD KRIEGSTEIN. I'M AT UCSF WHERE I DIRECT
15 THE STEM CELL PROGRAM, BUT I'M ALSO ONE OF THE FOUR
16 COFOUNDERS OF A COMPANY THAT HAS PROPOSED THE
17 EPILEPSY TREATMENT THAT I WANT TO DISCUSS.

18 I JUST WANT TO REVIEW VERY BRIEFLY THE
19 OVERALL TRAJECTORY OF THIS PROPOSAL BECAUSE IT
20 BEGAN, AS COREY MENTIONED, WHEN COREY WAS A POST-DOC
21 IN MY LAB AT UCSF. THROUGH CIRM SUPPORT, WE
22 DEVELOPED A PROTOCOL FOR MAKING THESE INHIBITORY
23 INTERNEURONS FROM EMBRYONIC STEM CELLS. THAT WAS
24 DEMONSTRATED TO BE EFFECTIVE IN THE ANIMAL MODELS OF
25 DISEASE, AND THAT LED TO THE NEXT STEP, WHICH WAS

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1 SCALING UP THE PRODUCTION AND MOVING TO GMP
2 FACILITIES, WHICH IS SOMETHING THAT WAS OUTSIDE OF
3 OUR ACADEMIC PURVIEW.

4 SO THAT'S WHY THE COMPANY WAS STARTED. IT
5 WAS STARTED TO MOVE THIS TOWARD A CLINICAL TRIAL.
6 THAT EFFORT WAS PARTLY FUNDED ALSO THROUGH CIRM, AND
7 IT MOVED SUCCESSFULLY TO CREATE AN IMPROVED VERSION
8 OF THE CELLS, AND THAT LED TO THE PROBLEM WITH THE
9 REVIEW; NAMELY, THAT THE COMPANY WAS NOT DISCLOSING
10 THE ENTIRE PROCEDURE FOR MAKING THE CELLS.
11 OBVIOUSLY THIS IS NOT AN ACADEMIC PROCEDURE AT THAT
12 POINT. IT WAS MORE OF A COMMERCIAL ENTERPRISE, AND
13 SO IT SEEMED REASONABLE THAT THIS WOULD BE KEPT AS A
14 TRADE SECRET. AND SO I THINK IT WAS A BIT UNFAIR
15 FOR THAT TO BE THE CRITICISM.

16 SO I WANT TO MENTION TO THE COMMITTEE THAT
17 THAT ONE CRITICISM ASIDE, THE STRATEGIES MOVING
18 FORWARD AND WE'RE MOVING FORWARD ON A CLINICAL
19 TRIAL, AND, AS COREY MENTIONED, A VERY IMPORTANT, WE
20 THINK, UNMET CLINICAL NEED AND FITS, WE THINK,
21 SQUARELY WITHIN THE PURVIEW OF CIRM. THANK YOU.

22 MR. SHEEHY: THANK YOU. IS THERE ANY
23 ADDITIONAL PUBLIC COMMENT? COULD YOU CALL THE ROLL,
24 PLEASE.

25 MS. BONNEVILLE: DAVID HIGGINS.

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1 DR. HIGGINS: YES.
2 MS. BONNEVILLE: STEVE JUELSGAARD.
3 MR. JUELSGAARD: YES.
4 MS. BONNEVILLE: DAVE MARTIN.
5 DR. MARTIN: NO.
6 MS. BONNEVILLE: LAUREN MILLER.
7 MS. MILLER: YES.
8 MS. BONNEVILLE: ADRIANA PADILLA.
9 DR. PADILLA: YES.
10 MS. BONNEVILLE: AL ROWLETT.
11 MR. ROWLETT: YES.
12 MS. BONNEVILLE: JEFF SHEEHY.
13 MR. SHEEHY: YES.
14 MS. BONNEVILLE: OS STEWARD.
15 DR. STEWARD: YES.
16 MS. BONNEVILLE: JONATHAN THOMAS.
17 CHAIRMAN THOMAS: YES.
18 MS. BONNEVILLE: ART TORRES.
19 MR. TORRES: AYE.
20 MS. BONNEVILLE: THE MOTION CARRIES.
21 MR. SHEEHY: THANK YOU.
22 SO WE STILL HAVE THAT REMAINING
23 APPLICATION TO MAKE A DECISION ABOUT. I HAVE A
24 QUESTION FOR THE CIRM TEAM. SO HOW MUCH MONEY IS
25 NOW LEFT OVER?

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1 DR. SAMBRANO: ACCORDING TO THE
2 SPREADSHEET, 4.8 MILLION.

3 MR. SHEEHY: HOW MUCH IS THE APPLICATION
4 THAT'S STILL OUTSTANDING? HOW MUCH IS THEIR
5 REQUEST?

6 DR. SAMBRANO: IT IS FOR 5.2.

7 MR. SHEEHY: SO WE HAVE A CHOICE. WELL,
8 MAYBE WE DON'T HAVE A CHOICE. I DON'T KNOW. BUT,
9 GEEZ, IF I WERE THE APPLICANT DURING PUBLIC COMMENT,
10 I WOULD HAVE SAID I WOULD DO THIS FOR 4.8, BUT THAT
11 WAS JUST ME. OF ALL THE ARGUMENTS YOU MADE, YOU
12 MISSED THE RIGHT ONE. ANYWAY, WE CAN EITHER VOTE
13 NOT TO FUND IT. I THINK THAT'S THE ONLY THING THAT
14 WE HAVE AVAILABLE TO US, BUT WE DO HAVE TO TAKE SOME
15 ACTION ON THIS APPLICATION UNLESS A BOARD MEMBER HAS
16 A DIFFERENT MOTION THAT THEY WOULD LIKE TO MAKE.

17 MR. TORRES: MR. CHAIRMAN, WHY CAN'T WE
18 MAKE A MOTION THAT EXCEEDS THAT AMOUNT?

19 MR. SHEEHY: PARDON ME?

20 MR. TORRES: WHY CAN'T WE MAKE A MOTION TO
21 PROVIDE AT LEAST --

22 MR. SHEEHY: SENATOR TORRES, IF YOU
23 WOULDN'T MIND USING THE MIC.

24 MR. TORRES: I JUST WANTED TO KNOW WHY
25 CAN'T WE MAKE A MOTION THAT GETS CLOSE TO WHAT WE

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1 HAVE LEFT TO THIS APPLICANT?

2 MR. SHEEHY: I'M NOT -- IF YOU REMEMBER
3 CORRECTLY, I'M TRYING TO BE BALANCED HERE AS I'M
4 CHAIRING THIS, BUT I WAS ONE OF THE ONES THAT WAS
5 FAIRLY MOVED BY THE ARGUMENTS IN THE ORIGINAL.

6 MR. TORRES: I REMEMBER. SO ARE YOU
7 SUGGESTING THAT 4.8 IS AN APPROPRIATE AMOUNT?

8 MR. SHEEHY: I DON'T HAVE ANY INDICATION
9 THAT THEY CAN DO THEIR WORK FOR THAT AMOUNT.

10 MR. TORRES: UNLESS THEY WERE TO GET
11 FUNDING ELSEWHERE.

12 MR. SHEEHY: OR THEY COULD GET FUNDING
13 ELSEWHERE, EXACTLY. IF THEY WERE TO LOCATE THE
14 DELTA, I THINK WE COULD HAVE THAT CONVERSATION; BUT
15 I CANNOT -- I ACTUALLY COULD NOT SUPPORT FUNDING AN
16 APPLICATION THAT WAS WRITTEN FOR A CERTAIN AMOUNT
17 WITHOUT SUFFICIENT FUNDS TO COMPLETE THE WORK UNLESS
18 THEY INDICATED THEIR ABILITY TO FIND THAT FUNDING.
19 THEN WE WOULD HAVE A CONVERSATION.

20 DR. NICHOLAS: THE ANSWER IS, YES, WE CAN
21 ABSOLUTELY USE THE 4.8 AND STILL EXECUTE ON THE
22 PROPOSAL.

23 MR. TORRES: I'LL PUT IT OUT THERE. SO
24 MOVED.

25 MR. JUELSGAARD: YOU OPENED THAT DOOR.

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1 MR. TORRES: THE DOOR HAS BEEN UNLOCKED
2 AND I MOVE IT.

3 MR. SHEEHY: YOUR MOTION IS TO FUND THIS
4 TO THE AMOUNT OF REMAINING FUNDS IN THE UNALLOCATED
5 RESEARCH FUNDS THAT WE HAVE AT THIS MOMENT, WHICH IS
6 ROUGHLY 4.8 TO 4.9 MILLION.

7 MR. TORRES: WITH THE UNDERSTANDING OF THE
8 COMMITMENT MADE BY THE APPLICANT THAT THEY WOULD
9 FIND THE REMAINING FUNDS OR PERFORM ADEQUATELY WITH
10 THIS AMOUNT.

11 MR. SHEEHY: I THINK YOU REALLY HAVE TO
12 PUT -- THAT'S VERY CONFUSING. I'M HEARING --

13 MR. TORRES: WELL, I THINK WE HAVE TO
14 INCORPORATE THEIR COMMENTS AS A REFLECTION OF HOW
15 I'M GOING TO VOTE. SO I'M NOT GOING TO PUT IT IN
16 THE MOTION. I'LL JUST CONTINUE TO MOVE THE 4.8 AND
17 THEN CONTINUE TO HAVE DISCUSSIONS WITH THEM.

18 MR. SHEEHY: SO THE MOTION IS TO FUND THIS
19 AT THE SLIGHTLY OVER 4.8 THAT WE HAVE REMAINING. DO
20 WE HAVE A SPECIFIC NUMBER WE WANT TO USE?

21 MR. TORRES: YES, MR. CHAIRMAN.

22 MR. SHEEHY: OKAY. DR. STEWARD. BY THE
23 WAY, I SECOND YOUR MOTION.

24 MR. TORRES: THANK YOU.

25 DR. STEWARD: QUESTION. I BELIEVE WE HAVE

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1 A REVIEW NEXT WEEK FOR A CLIN.

2 MR. SHEEHY: YES.

3 DR. STEWARD: AND SHOULD WE VOTE IN FAVOR
4 OF FUNDING THIS, EXACTLY WHAT IMPACT DOES THAT HAVE
5 ON THE UPCOMING REVIEW, OR IS THAT A FAIR QUESTION
6 TO ASK?

7 DR. SAMBRANO: IT DOESN'T HAVE AN IMPACT
8 BECAUSE WE EXCLUDED THE SICKLE CELL POT, WHICH
9 THAT APPLICATION HAPPENS TO BE.

10 DR. STEWARD: FINE. AGAIN, JUST CAN YOU
11 REMIND US WHAT THE VOTE OF THE GRANTS WORKING GROUP
12 WAS ON WHETHER OR NOT TO FUND THIS?

13 DR. SAMBRANO: FOR THIS PARTICULAR
14 APPLICATION, ALL MEMBERS SCORED BELOW 85. SO THEIR
15 VOTE, IF YOU WILL, WAS TO NOT FUND IT. SO A LOT OF
16 IT PERTAINING, AS MENTIONED, TO MANUFACTURING
17 ACTIVITIES THAT COULD NOT REALLY BE PROPERLY
18 ASSESSED, WHICH ARE A GOOD PORTION OF THE ACTIVITIES
19 THAT ARE PROPOSED, BUT ALSO OTHER CONCERNS.

20 DR. MARTIN: MAY I JUST ASK A QUESTION.
21 MAYBE IT'S INAPPROPRIATE. HAS ANY INTELLECTUAL --
22 ANY PATENT APPLICATION BEEN FILED ON THE
23 MANUFACTURING PROCESS?

24 MR. SHEEHY: I THINK IT'S OKAY IF YOU WANT
25 TO COME UP. MAYBE WE'RE AT THE POINT WE'RE HAVING A

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1 LITTLE BIT OF DIALOGUE, DR. NICHOLAS, IF THAT'S
2 OKAY. I JUST WANT TO STRESS MY PRIMARY MOTIVATION
3 IS THAT IT IS AN EMBRYONIC STEM CELL APPLICATION IN
4 LATE STAGE. AND THAT REALLY IS WHAT WE WERE FOUNDED
5 TO DO.

6 DR. NICHOLAS: YES, WE HAVE THREE ISSUED
7 PATENTS. THESE HAVE BEEN EXCLUSIVELY LICENSED FROM
8 UCSF TO THE COMPANY.

9 DR. MARTIN: ARE THEY A MANUFACTURING
10 PROCESS?

11 DR. NICHOLAS: ONE OF THEM IS ON THE
12 MANUFACTURING PROCESS, YES.

13 DR. MARTIN: THAT'S PUBLIC INFORMATION.

14 DR. NICHOLAS: ONLY HALF OF THE PATHWAYS
15 ARE DISCLOSED IN A VERY BROAD, NONSPECIFIC MANNER,
16 BUT NOT THE IDENTITIES OF THE REAGENTS THAT ARE THE
17 KEY TRADE SECRETS IN OTHER PARTS OF THE INTELLECTUAL
18 PROPERTY.

19 DR. MARTIN: SO YOU DO NOT INTEND TO
20 EXPOSE THOSE TRADE SECRETS BY PATENTING?

21 DR. NICHOLAS: CORRECT.

22 DR. MARTIN: SO THAT'S THE ISSUE AT THE
23 WORKING GROUP.

24 DR. NICHOLAS: I JUST ALSO WANTED TO ADD
25 THAT THE PRECLINICAL STUDIES THAT WE COMPLETED IN

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1 THE QUEST AWARD WERE EXTREMELY COMPELLING DATA WHERE
2 THESE TRANSPLANTS ELIMINATED SEIZURES COMPLETELY IN
3 MOST OF THE ANIMALS THAT WE STUDIED. AND THAT'S THE
4 REAL GOAL FOR THE PATIENTS. IT'S NOT JUST AN
5 INCREMENTAL REDUCTION OF SEIZURES, BUT IT'S SEIZURE
6 FREEDOM. THAT'S THE TYPE OF PROMISE THAT WE'RE
7 HOPING TO REALIZE HERE WITH THE REGENERATIVE SINGLE
8 ADMINISTRATION OF THE NEURONAL CELL THERAPY THAT'S
9 ES DERIVED.

10 DR. STEWARD: SO I ASKED THE QUESTION
11 BECAUSE IT, AGAIN, REALLY IS IMPORTANT FOR ME TO PAY
12 CAREFUL ATTENTION TO THE RECOMMENDATIONS OF THE
13 GRANTS WORKING GROUP. AND ALL 15 VOTED AGAINST
14 FUNDING THIS.

15 I JUST WANT TO REMIND EVERYONE THAT THE
16 GRANTS WORKING GROUP HAS SEEN OTHER CONFIDENTIAL AND
17 PROPRIETARY INFORMATION. IT'S PART OF THEIR
18 CHARTER. THEY, I THINK I CAN SAY, FELT VERY
19 STRONGLY THAT THERE WAS NO REASON TO WITHHOLD THAT
20 INFORMATION FROM THIS APPLICATION, THAT THIS MADE IT
21 DIFFICULT TO REVIEW IT DESPITE THE FACT THAT THE
22 INDICATION IS A VERY IMPORTANT ONE.

23 I WILL SAY THAT I HAVE A FAMILY MEMBER WHO
24 SUFFERS FROM EPILEPSY. I UNDERSTAND PERSONALLY.
25 HOWEVER, I DO RESPECT THE VIEWS OF THE GRANTS

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1 WORKING GROUP IN THIS CASE, HIGHLY RESPECT THOSE
2 VIEWS, AND I THINK IN THIS CASE ALL THAT WOULD HAVE
3 BEEN NECESSARY IS PROVIDING THIS INFORMATION AND
4 THIS GRANT WOULD HAVE BEEN RECOMMENDED FOR FUNDING.
5 THAT TELLS YOU HOW I'M GOING TO VOTE THANK YOU.

6 MR. SHEEHY: THANK YOU, DR. STEWARD.
7 CHAIRMAN THOMAS.

8 CHAIRMAN THOMAS: SO PORTFOLIO BALANCING
9 PURPOSES, I THINK, IN GENERAL, THIS IS A GOOD IDEA
10 SINCE WE DON'T HAVE THIS AS A TARGET. BUT MY
11 QUESTION FOR YOU IS THERE ARE OBVIOUSLY MANY
12 DIFFERENT FORMS OF EPILEPSIES. HOW DO YOU THINK
13 SUCCESS IN THIS PARTICULAR APPROACH WOULD INFORM
14 POSSIBLE TREATMENTS FOR OTHER EPILEPSIES?

15 DR. NICHOLAS: IT WOULD BE HIGHLY
16 INFORMATIVE. SO TEMPORAL LOBE EPILEPSY IS ABOUT
17 HALF OF ALL EPILEPSIES. BUT IN ADDITION TO TEMPORAL
18 LOBE EPILEPSIES, THERE ARE OTHER TYPES OF FOCAL
19 EPILEPSIES OUTSIDE OF THE TEMPORAL LOBE THAT WE
20 THINK WE CAN EXTEND THIS SAME PRODUCT TOWARD WITHOUT
21 HAVING TO DO ADDITIONAL MANUFACTURING. AND FOR THAT
22 MATTER, THE SAME INHIBITORY NEURON PRODUCT WE ARE
23 ADVANCING FOR OTHER INDICATIONS, SUCH AS CHRONIC
24 DRUG RESISTANT NEUROPATHIC PAIN AND PARKINSON'S
25 DISEASE. SO WE REALLY THINK THAT THERE'S A LOT OF

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1 VALUE IN SUPPORTING THIS, NOT JUST FOR THE ONE
2 APPLICATION, BUT FOR EVEN OTHER INDICATIONS AS WELL.
3 I THINK IT'S QUITE UNIQUE THAT IT'S A TRIPLE THREAT
4 IN THAT REGARD.

5 JUST, AGAIN, TO RESPOND TO DR. STEWARD,
6 SOME OF THE COMMENTS FROM THE GRANTS WORKING GROUP,
7 THEY WANTED TO KNOW THE EXACT REAGENTS AND DETAILS.
8 AND OUR BOARD JUST FELT THAT IF WE DID THAT, THAT
9 WOULD REALLY DESTROY THE FABRIC OF WHAT WE'RE TRYING
10 TO ACCOMPLISH HERE, WHICH IS TO INCENTIVIZE
11 INVESTORS TO CO-FUND THIS ALONG WITH CIRM TO TAKE
12 THIS ALL THE WAY TO PATIENTS. THE HUNDREDS OF
13 MILLIONS THAT YOU NEED TO TAKE THIS ALL THE WAY TO
14 MARKET TO GET THIS DISTRIBUTED AROUND THE WORLD
15 CAN'T BE SUPPORTED BY THIS GROUP ALONE, AND IT NEEDS
16 TO HAVE PATENT PROTECTION. AND IT NEEDS TO HAVE
17 TRADE SECRET PROTECTION. WE AT THIS EARLY STAGE
18 COULD NOT DIVULGE THAT. IT WOULD DESTROY OUR
19 ABILITY TO RAISE ADDITIONAL DOLLARS.

20 AND I FELT THAT IT WAS UNFAIR THAT THAT
21 WAS A REQUIREMENT TO DISCLOSE SOME OF THOSE SECRETS
22 THAT WOULD REALLY BE REQUIRED TO ADVANCE US ALL THE
23 WAY. AND SHORT OF REVEALING THE IDENTITIES, WE
24 TALKED ABOUT THE CLASSES OF REAGENTS THAT WE'RE
25 OPTIMIZING, SUCH AS SUPPLEMENTS TO THE CULTURE

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1 MEDIA, SUBSTRATES AND VESSELS AND SCALE, AND WE
2 TALKED ABOUT THE STRATEGY AND THE ACTIVITIES THAT
3 WERE PROPOSED. AND WE FELT THAT THAT SHOULD BE
4 ENOUGH WITHOUT HAVING TO DISCLOSE THE EXACT CATALOG
5 NUMBERS OF THE REAGENTS.

6 MR. SHEEHY: I HAVE ONE SPECIFIC QUESTION.
7 SO YOU FEEL CERTAIN THAT YOU WILL BE ABLE TO SPEAK
8 TO YOUR INVESTORS AND ACQUIRE THE REMAINING FUNDS IN
9 ORDER TO COMPLETE THIS APPLICATION AS WRITTEN?

10 DR. NICHOLAS: ABSOLUTELY.

11 MR. SHEEHY: THANK YOU. ANY OTHER BOARD
12 COMMENTS OR QUESTIONS?

13 DR. MARTIN: I'LL JUST PICK AT ANOTHER
14 TECHNICAL QUESTION. AND THAT IS YOU'RE USING AN
15 ALLOGENEIC HUMAN EMBRYONIC STEM CELL. WHAT EVIDENCE
16 DO YOU HAVE THAT THAT CELL WILL PERSIST IN A HUMAN?

17 DR. NICHOLAS: THE SAME THAT EVERY OTHER
18 GROUP THAT'S FUNDED BY CIRM THAT'S DEVELOPING
19 ALLOGENEIC THERAPY HAS AND THERE'S NOT MUCH OTHER
20 THAN WE PLAN TO USE TRANS IMMUNOSUPPRESSION, LOW
21 DOSE, TO ENABLE ENGRAFTMENT, THE SAME WAY THAT ORGAN
22 RECIPIENTS HAVE THEIR GRAFTS SURVIVE. AND THIS IS
23 NO DIFFERENT. THIS IS ACTUALLY A LOWER DOSE
24 IMMUNOSUPPRESSION BECAUSE THE GRAFTS ARE A TARGETED
25 CELL DELIVERY RATHER THAN AN ENTIRE ORGAN.

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1 THERE'S EVIDENCE, OF COURSE, THAT WE POINT
2 TO AS A FIELD TO THE PARKINSON'S WORK THAT WAS DONE
3 IN THE '80S AND '90S, AND SOME OF THOSE ALLOGENEIC
4 GRAFTS HAVE SURVIVED WITH THAT STRATEGY FOR DECADES.
5 THAT'S THE BEST EVIDENCE THAT WE HAVE. OF COURSE,
6 FOR EPILEPSY, WE'D HAVE TO DO THE EXPERIMENT. WE
7 HAVE A REALLY STRONG BELIEF THAT THOSE CELLS WILL
8 PERSIST WITH THE TRADITIONAL, STANDARD
9 IMMUNOSUPPRESSION THAT WE PLAN AS WELL AS OUR
10 COLLEAGUES PLAN TO ADMINISTER.

11 MR. SHEEHY: ADDITIONAL BOARD COMMENTS,
12 QUESTIONS?

13 MR. ROWLETT: I ALSO PARTICIPATED AS A
14 PATIENT ADVOCATE ON THIS REVIEW, NOT SPECIFICALLY
15 ASSIGNED TO THE REVIEW. I WANT TO ACKNOWLEDGE THAT
16 MY PERSPECTIVE MIRRORS THE PERSPECTIVE OF DR.
17 STEWARD. MY APPRECIATION OF GRANT WORKING
18 GROUP MEMBERS IS THAT ALL INFORMATION, INCLUDING
19 PROPRIETARY INFORMATION, IS GUARDED. AND CERTAINLY
20 I WAS PART OF THE OR PARTICIPATED IN THE
21 CONVERSATION ASSOCIATED WITH THE PROPRIETARY
22 INFORMATION THAT WAS THEN REFERRED TO REGARDING THIS
23 PARTICULAR PROPOSAL.

24 CONSEQUENTLY, I WANT TO DISCLOSE THAT MY
25 LEANING IS MIRRORING MR. STEWARD'S IN THAT GIVEN THE

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1 VOTE BY THE GWG WAS UNANIMOUS IN NOT FUNDING THIS
2 PROPOSAL.

3 MR. SHEEHY: THANK YOU, MR. ROWLETT.

4 IS THERE ANOTHER COMMENT OR QUESTION FROM
5 THE BOARD? IS THERE ANY PUBLIC COMMENT
6 ADDITIONALLY? THEN CAN WE CALL THE ROLL, PLEASE.

7 MS. BONNEVILLE: DAVID HIGGINS.

8 DR. HIGGINS: YES.

9 MS. BONNEVILLE: STEVE JUELSGAARD.

10 MR. JUELSGAARD: YES.

11 MS. BONNEVILLE: DAVE MARTIN.

12 DR. MARTIN: NO.

13 MS. BONNEVILLE: LAUREN MILLER.

14 MS. MILLER: YES.

15 MS. BONNEVILLE: ADRIANA PADILLA.

16 DR. PADILLA: YES.

17 MS. BONNEVILLE: AL ROWLETT.

18 MR. ROWLETT: NO.

19 MS. BONNEVILLE: JEFF SHEEHY.

20 MR. SHEEHY: YES.

21 MS. BONNEVILLE: OS STEWARD.

22 DR. STEWARD: NO.

23 MS. BONNEVILLE: JONATHAN THOMAS.

24 CHAIRMAN THOMAS: YES.

25 MS. BONNEVILLE: ART TORRES.

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1 MR. TORRES: AYE.

2 MS. BONNEVILLE: THE MOTION CARRIES.

3 MR. SHEEHY: THANK YOU, MS. BONNEVILLE.

4 THANK YOU TO THE MEMBERS OF THE APPLICATION REVIEW
5 SUBCOMMITTEE.

6 BEFORE I HAND THIS BACK TO THE CHAIR, I
7 KNOW WE HAVE SEVERAL PATIENTS AND PATIENT ADVOCATES
8 WHO HAVE COME TODAY. I THINK IT'S FORTUNATE THAT
9 PROJECTS GOT FUNDED. BUT IF ANYBODY WANTED TO MAKE
10 A COMMENT BEFORE WE CLOSE THIS OUT, THE FLOOR IS
11 OPEN. OTHERWISE WE'LL TURN IT BACK OVER TO THE
12 REGULAR BOARD BUSINESS.

13 MS. BACCHETTA: THANK YOU VERY MUCH. I
14 SPEAK FOR IPEX PROJECT, AND I'M VERY GRATEFUL FOR
15 THE (UNINTELLIGIBLE) OF YOURS AND FOR ALL OF YOU OF
16 THE BOARD. I JUST WANT TO SAY THAT IPEX PATIENT,
17 BECAUSE OF THE GENE MUTATION, GETS VERY SICK SOON
18 AFTER BIRTH AND OFTEN DIE VERY EARLY IN LIFE WITH
19 FEW EXCEPTIONS. AND TAYLOR IS ONE OF THESE
20 EXCEPTIONS. SO I WOULD REALLY LIKE TO GIVE HIM THE
21 OPPORTUNITY TO SHARE HIS EXPERIENCE. AND THANK YOU
22 SO MUCH FOR YOUR TRUST.

23 TAYLOR: GOOD MORNING. MY NAME IS TAYLOR,
24 AND I'D LIKE TO THANK ROSA, WHO'S ONE OF THE MANY
25 DOCTORS IN MY LIFE. AND ROSA PRESENTED ME WITH THIS

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1 OPPORTUNITY TO COME AND SPEAK TO YOU TODAY ABOUT MY
2 CHALLENGES LIVING WITH IPEX.

3 SO TO GIVE YOU SOME BACKGROUND INTO MY
4 HEALTH CHALLENGES I FACED MY ENTIRE LIFE, MY FIRST
5 DIAGNOSIS CAME AT ONE AND A HALF WITH TYPE 1
6 DIABETES. SOON AFTER BEING DIAGNOSED WITH TYPE 1
7 DIABETES, I HAD TO HAVE A FEEDING TUBE INSERTED INTO
8 MY ABDOMEN. SO I WAS RESTRICTED FROM EATING ALMOST
9 ALL FOODS DUE TO UNKNOWN FOOD ALLERGIES. I WAS NOT
10 ALLOWED TO INGEST ANY FOOD UNTIL THE AGE OF SIX,
11 WHEN I WAS FINALLY INTRODUCED TO FOOD. MOST FOOD
12 WAS TASTELESS AND FELT VERY MUCH LIKE SANDPAPER AS I
13 HAVE TO TRAIN MYSELF TO EAT.

14 AROUND THE AGE OF 10 I'D BE FACED WITH THE
15 BEGINNING OF A NEVERENDING BATTLE WITH MY
16 DERMATITIS. I REMEMBER SPECIFIC DETAILS WHERE I
17 WENT TO THE DERMATOLOGIST TO TRY TO FIGURE OUT WHAT
18 WAS HAPPENING AS MY SKIN WAS RED, BLOTCHY, OOZING
19 EVERYWHERE. I REMEMBER SHIVERING SO BAD THAT I HAD
20 TO ASK THE DOCTOR TO TURN THE AIR DOWN IN THE
21 OFFICE.

22 AT AGE 18 I HAD BEEN FORMALLY DIAGNOSED
23 WITH IPEX. I HAD LOST ALL OF MY HAIR AND MY SKIN
24 STARTED A BATTLE THAT WAS MORE INTENSE THAN ANY
25 PREVIOUS EPISODE. I REMEMBER TAKING SHOWERS AND ALL

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1 OF MY HAIR WOULD FALL OUT, AND I WOULD BE DEVASTATED
2 NOT KNOWING WHAT WAS HAPPENING.

3 AT AGE 20 I WOULD GO THROUGH THE MOST
4 HORRIFIC BATTLE WITH MY SKIN TO DATE. I WAS
5 BEDRIDDEN ON PAIN MEDS AND WAS NOT SLEEPING. I HAD
6 GONE TO ALL OF MY DOCTORS ATTEMPTING TO FIGURE OUT
7 WHAT HAD TRIGGERED THIS EVENT, AND NO DOCTOR COULD
8 FIGURE OUT WHAT WAS HAPPENING, LEAVING ME EXTREMELY
9 FRUSTRATED, DEPRESSED, AND PRETTY MUCH DRAINED OF
10 ANY ENERGY I HAD.

11 I WENT TO THE BURN CENTER AS A LAST
12 RESORT, AND WAS THEN TREATED AS A BURN PATIENT. TO
13 CARE FOR MY WOUNDS, I WOULD BATHE, TAKE A SPONGE AND
14 ACTUALLY PHYSICALLY SCRAPE MY OPEN WOUNDS TO KEEP
15 THEM INFECTION FREE.

16 WHEN I WOULD EXIT THE BATH, I FELT LIKE A
17 DRIED UP SPONGE. MY SKIN WAS SO TIGHT, ANY MOVEMENT
18 WOULD CAUSE MY SKIN TO CRACK OPEN AND START
19 BLEEDING. TO ADD TO THIS, I WOULD USE MEDICATED
20 WRAPS TO HELP WITH THE HEALING PROCESS. IN AN
21 ONGOING ATTEMPT TO TREAT MY SYMPTOMS, I TOOK A
22 SERIES OF MEDICATIONS THAT CAME WITH MANY SIDE
23 EFFECTS. I'VE HAD AT LEAST 15 SURGERIES TO REMOVE
24 SQUAMOUS CELLS CAUSED BY ONE OF MY MEDICATIONS THAT
25 I HAD BEEN TAKING.

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1 THEN I WOULD ENDURE ONE OF THE MOST
2 DIFFICULT SIDE EFFECTS TO DATE FROM ONE OF MY
3 MEDICATIONS. IN 2018 MY COLON PERFORATED; AND AS A
4 RESULT, I NOW HAVE A COLOSTOMY BAG.

5 THE IPEX SYMPTOMS HAVE NOT AFFECTED ME
6 JUST PHYSICALLY, BUT MENTALLY AS WELL. I LOST ALL
7 MY HAIR AND MY GROWTH HAD BEEN PREMATURELY STUNTED,
8 AND I HAVE NOT REACHED THE POINT IN PUBERTY OF MY
9 MALE COUNTERPARTS.

10 I GO DAY BY DAY AND BE ENVIOUS THAT MY
11 PEERS WERE TALL, HAD HAIR, HAD RELATIONSHIPS. AND
12 THE CONFIDENCE THAT I WAS LACKING, AND ADMITTEDLY
13 STILL LACK TO THIS DAY, AT TIMES I FELT HOPELESS
14 BECAUSE THERE HAVE BEEN SO FEW TREATMENT OPTIONS.
15 AND WITH THE TREATMENT CURRENTLY AVAILABLE, I ONLY
16 HAVE HORRIFIC SIDE EFFECTS TO SHOW FOR IT, NOT TO
17 MENTION I'VE TRIED HUNDREDS OF MEDICATIONS AND
18 CREAMS, HAD MY BLOOD DRAWN COUNTLESS TIMES IN HOPES
19 OF FINDING A MEDICATION THAT WOULD EVENTUALLY WORK;
20 HOWEVER, THERE'S BEEN NOTHING.

21 AS A RESULT, I'VE BEEN BATTLING DEPRESSION
22 SINCE 20, AND THERE WERE DAYS WENT BY WHERE I
23 THOUGHT I JUST DON'T WANT TO BE HERE IF THIS IS WHAT
24 MY LIFE IS GOING TO BE LIKE.

25 THIS NEXT PART I WAS GOING TO SAY I GUESS

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1 I DON'T REALLY NEED TO SAY, BUT THE FUNDING THAT WAS
2 NEEDED FOR THE THERAPY WOULD BE LIFE CHANGING IN THE
3 WAY OF NEW TREATMENT OPTIONS AND POTENTIALLY LEAD TO
4 CURE FOR THIS HORRIFIC DISEASE. I GUESS I CAN NOW
5 SAY THAT HOPEFULLY WE'LL BE ABLE TO FIND A CURE
6 MOVING FORWARD. THANK YOU SO MUCH.

7 (APPLAUSE.)

8 MR. SHEEHY: THANK YOU, TAYLOR. YOUR
9 STORY IS JUST UNBELIEVABLY POWERFUL. THANK YOU FOR
10 YOUR COURAGE. IT'S INSPIRING I'M SURE TO ALL OF US.
11 AND THANK YOU. I'M GLAD, I'M REALLY GLAD WE COULD
12 HELP, TO BE HONEST.

13 THAT'S ONE OF THE THINGS I'M GOING TO MISS
14 BECAUSE OBVIOUSLY I'VE BEEN ON THE BOARD SINCE THE
15 BEGINNING AND I WON'T BE AROUND FOR THE NEXT ROUND.
16 I THINK NONE OF US ORIGINAL ONES, I THINK WE'RE ALL
17 TERMED OUT. BUT THE STORIES FROM THE PATIENTS HAVE
18 BEEN SUCH AN ENORMOUS GIFT. HEARING FROM PEOPLE
19 SUCH AS TAYLOR SHARING THEIR LIVES AND THEIR
20 STRUGGLES, AND IT MAKES ALL OF THIS SO WORTHWHILE.
21 SO THANK YOU. THANK YOU.

22 NOW IT'S BACK TO YOU, CHAIRMAN THOMAS.

23 MR. REED: I HAD A PATIENT --

24 MR. SHEEHY: SORRY, DON. MY APOLOGIES.
25 AND IF THERE IS ANYONE ELSE -- BY THE WAY, I WASN'T

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1 TRYING -- WE DO HAVE ANOTHER PATIENT. I APOLOGIZE.

2 MR. REED: AIDS, 78 MILLION; ALS, 79
3 MILLION; ALZHEIMER'S DISEASE, 56 MILLION; ARTERIAL
4 LIMB DISEASE, 22 MILLION; ARTHRITIS, 24 MILLION;
5 AUTISM, 41 MILLION; BLINDNESS, 144 MILLION; CANCER
6 BRAIN TUMOR, 102 MILLION; LEUKEMIA, 208 MILLION;
7 CANCER SKIN, 14 MILLION; CANCER TUMOR, 248 MILLION;
8 DEAFNESS, 8 MILLION; DIABETES, 134 MILLION; HEART
9 DISEASE, 202 MILLION; HUNTINGDON'S, 34 MILLION;
10 KIDNEY DISEASE, 82 MILLION; LUNG DISEASE, 39
11 MILLION; MULTIPLE SCLEROSIS, 9 MILLION; MUSCULAR
12 DYSTROPHY, 34 MILLION; OSTEOPOROSIS, 90 MILLION;
13 PARALYSIS, 61 MILLION; PARKINSON'S, 55 MILLION;
14 IMMUNODEFICIENCY, 142 MILLION; SICKLE CELL, 41
15 MILLION; STROKE, 62 MILLION; URINARY INCONTINENCE,
16 11 MILLION. PLEASE KNOW, CIRM, THAT YOU HAVE
17 FRIENDS OUT THERE, AND WE ARE GOING TO BE FIGHTING
18 FOR YOU. I HATE THE THOUGHT OF THERE BEING A WORLD
19 WITHOUT CIRM. YOU'VE DONE SO MUCH. THANK YOU.

20 MR. SHEEHY: THANK YOU, MR. REED.

21 DR. DENG: I'M SOPHIE DENG, THE PI OF THE
22 LIMBAL STEM CELL DEFICIENCY PROJECT. THANK YOU SO
23 MUCH FOR YOUR SUPPORT OVER THE LAST EIGHT YEARS.
24 ONE OF MY PATIENT, MS. CLAIRE HESS, WOULD LIKE TO
25 SHARE WITH YOU HER STRUGGLES WITH DISEASE.

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1 MS. HESS: THANK YOU VERY MUCH. THANK YOU
2 FOR ALLOCATING THIS MONEY FOR THE RESEARCH.

3 I HAVE HAD THIS DISEASE SINCE MY SECOND
4 SON WAS SIX MONTHS OLD. I CAN SEE YOU, BUT I CAN'T
5 SEE ANYTHING ON YOUR FACES. IT'S LIKE LOOKING
6 THROUGH WAX PAPER, AND I HAVE BEEN THIS WAY SINCE MY
7 CHILD WAS SIX MONTHS OLD. I CAN'T PICK THEM UP. I
8 CAN'T DRIVE. THEY ALLUDED TO PAIN, BUT WHEN THEY
9 SAY PAIN, IT IS PAIN THAT WILL HAVE ME UNDERNEATH
10 THE COVERS HIDING FROM THE SUN AND HOPING MY KIDS
11 BEHAVE BECAUSE I CAN'T DEAL WITH IT.

12 SO I CANNOT TELL YOU HOW MUCH WE
13 APPRECIATE THIS. IT'S BEEN A LONG TIME COMING.
14 THERE'S NOT BEEN ANSWERS TO WHY THIS HAS HAPPENED OR
15 HOW TO STOP IT. IT'S IN BOTH OF MY EYES AT THIS
16 POINT, AND HOPEFULLY ANOTHER DECADE FROM NOW WE HAVE
17 ANSWERS TO PREVENT THIS FROM HAPPENING TO ANOTHER
18 YOUNG MOM. THANK YOU.

19 MR. SHEEHY: THANK YOU VERY MUCH.

20 (APPLAUSE.)

21 MR. SHEEHY: IS THERE ANYONE ELSE? HAPPY
22 TO HEAR FROM EVERYONE WHO'S HERE.

23 MS. BARRERO: MY NAME IS ROSIE BARRERO. I
24 CAME HERE TODAY WITH MY SON, WHO HAS AUTISM, AND
25 HE'S REALLY ANXIOUS TO GET HOME. WE HAD AN

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1 INTERESTING RIDE UP. TWO HOURS IN WE WERE ENJOYING
2 OUR RIDE, LISTENING TO COUNTRY MUSIC, HE WAS DANCING
3 IN THE BACK SEAT. BY HOUR THREE HE REALIZED WE ARE
4 NOT GOING HOME. AND WE SURPRISED HIM AND TOLD HIM
5 WE WERE COMING TO THIS MEETING. AND I JUST WANTED
6 TO SAY THANK YOU SO MUCH FOR FUNDING JCYTE'S
7 CONTINUATION IN PHASE 1.

8 I RECEIVED A MILLION STEM CELLS, AND I
9 NOTICED A DIFFERENCE. AND IT WAS ONLY TO SHOW THAT
10 THE CELLS WERE SAFE. AND THAT'S THE BEAUTY OF JCYTE
11 IS THAT THEIR COMMITMENT TO QUALITY AND SAFETY IS
12 THERE. I WOULDN'T BE HERE IF I DIDN'T BELIEVE IN
13 THEM. AND THIS MEANS THAT I WILL BE REINJECTED AT
14 HIGHER DOSE, AND THAT MEANS THAT BY THIS TIME
15 POSSIBLY NEXT YEAR I CAN SEE EVEN MORE THAN I CAN
16 RIGHT NOW. AND THIS IS ABSOLUTELY A MIRACLE, AND
17 I'M SO GRATEFUL TO CIRM. THANK YOU.

18 (APPLAUSE.)

19 YOUNG MR. BARRERO: THANK YOU. THANK YOU
20 FOR HELPING ME MOM GETTING HER SIGHT BACK.

21 MR. BARRERO: THANK YOU VERY MUCH,
22 EVERYONE. I'M EXCITED ABOUT THE EPILEPSY MONIES
23 THAT ARE GOING BECAUSE OUR SON, HE ALSO HAS SEIZURE
24 DISORDER. AND IT'S THE LAST MEDICATION THAT HE'S
25 ON, AND WE'RE HOPING TO FIND A CURE FOR HIS

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1 EPILEPSY. SO I'M ANXIOUS TO SEE THE RESULTS OF YOUR
2 CLINICAL TRIAL IN THE YEARS TO COME.

3 (APPLAUSE.)

4 MR. SHEEHY: THANK YOU SO MUCH. IS
5 THERE -- WE'RE HAPPY TO HEAR FROM EVERYONE.

6 MR. BRESGE: I DID PREPARE SOMETHING JUST
7 SO THAT I KNEW I WOULD BE COHERENT AND ARTICULATE.
8 SO I AM THE CEO OF JCYTE. THANK YOU SO MUCH, ROSIE,
9 FOR BEING ONE OF OUR VERY BRAVE PATIENTS. I'M ALSO
10 THE PARENT OF A CHILD WHO WAS DIAGNOSED WITH RP
11 ABOUT NINE AND A HALF YEARS AGO; AND WHEN SHE WAS
12 DIAGNOSED, WE WERE GIVEN NO HOPE. WE WERE GIVEN A
13 HANDBOOK FROM THE CANADIAN NATIONAL INSTITUTE FOR
14 THE BLIND SO THAT SHE COULD LEARN HOW IT COPE WITH
15 HER EVENTUAL BLINDNESS.

16 I VERY QUICKLY EMBARKED ON A WORLDWIDE
17 SEARCH TO LEARN ABOUT THE WORK THAT WAS BEING DONE
18 IN RP, AND I QUICKLY UNDERSTOOD THAT CELL THERAPY
19 WAS THE GREATEST LIKELIHOOD OF SUCCESS. WITH THAT
20 IN MIND, I FOUND DR. KLASSEN, WHO'S SITTING RIGHT
21 HERE, AND HIS WIFE PARTNER CHEN YANG, A BRILLIANT
22 TEAM WHO HAD DEVELOPED THIS VERY SPECIAL HUMAN
23 RETINAL PROGENITOR CELL THAT RELEASES THESE SPECIAL
24 TROPHIC FACTORS THAT, ONCE INJECTED INTO THE
25 VITREOUS OF THE EYE, NOURISHES THE EXISTING

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1 PHOTORECEPTORS TO KEEP THEM ALIVE AND EVEN POSSIBLY
2 REVERSE THE BLINDNESS BY PROVIDING THESE NUTRIENTS
3 TO THE WEAK OR DORMANT PHOTORECEPTORS.

4 JUST IMAGINE THAT, A WAY TO NOT ONLY STOP
5 IT, BUT POTENTIALLY REVERSE THE PROGRESSION OF THE
6 BLINDNESS. WE BEGAN WORKING TOGETHER VERY CLOSELY.
7 WE HAD A COMMON GOAL, TO GET THE TREATMENT TO THE
8 PATIENTS. IMPORTANT THING WAS TO GET THE WORK OF
9 THE LAB AND INTO THE CLINIC, AND THAT'S WHERE CIRM
10 COMES IN.

11 CIRM'S MISSION TO ACCELERATE THE STEM CELL
12 TREATMENTS TO PATIENTS WITH UNMET NEEDS IS PRECISELY
13 CONGRUENT WITH WHAT JCYTE'S MISSION IS. CIRM
14 AWARDED US WITH A DISEASE TEAM GRANT IN 2012 AND
15 THEN A FOLLOWING CLIN2 GRANT IN 2016. WITH THAT
16 MONEY WE HAVE CONDUCTED REALLY THREE CLINICAL
17 TRIALS, ONE PHASE 1/2A STUDY. ALTHOUGH THERE WAS A
18 SAFETY STUDY, WE GOT ENOUGH OF A SIGNAL THAT NOT
19 ONLY PROVIDED US A PATHWAY TO CONTINUE OUR
20 DEVELOPMENT FORWARD, BUT ALSO TO AN RMAT
21 DESIGNATION. WE RECENTLY COMPLETED A PHASE 2B
22 STUDY, AND WE ARE VERY ENCOURAGED WITH THE RESULTS.
23 AT MINIMUM, THEY PROVIDE US WITH AN EXCELLENT
24 UNDERSTANDING OF HOW TO DESIGN A SUCCESSFUL PHASE 3
25 STUDY.

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1 CIRM HAS TRULY BEEN A PARTNER FOR US, NOT
2 ONLY IN THE FUNDING, BUT IN THE GUIDANCE. SO WE
3 WORK VERY CLOSELY WITH THE CIRM TEAM, AND THEY PUSH
4 US TO MAKE SOME REALLY IMPORTANT DECISIONS; FOR
5 EXAMPLE, TO INCREASE THE DOSE TO GO MUCH HIGHER IN
6 OUR DOSING, ALSO TO DEVELOP A UNIQUE WAY TO TEST OUR
7 SUBJECTS. SO IT'S REALLY WITH THAT KIND OF
8 PARTNERSHIP ALSO WITH CMC TO PUSH US TO PAY
9 ATTENTION TO CMC SO THAT OUR CLINICAL PROGRAM AND
10 OUR MANUFACTURING PROGRAMS WOULD RUN IN PARALLEL.

11 SO IT'S WITH ALL OF THAT PARTNERSHIP, THAT
12 SUPPORT THAT I'M SO GRATEFUL TO ALL OF YOU. I HAVE
13 MANY FRIENDS SITTING AROUND THIS TABLE WHO SUPPORTED
14 ME AND JCYTE IN MANY WAYS. THANK YOU SO MUCH TO ALL
15 OF YOU, TO ALL OF THE PEOPLE AT CIRM, TO THE
16 TAXPAYERS OF CALIFORNIA. AND I KNOW THAT -- I HAVE
17 TWO SPECIAL PEOPLE WITH ME, DR. KLASSEN AND DR.
18 DUGEL, WHO'S VERY CLOSE ADVISOR TO OUR COMPANY, AND
19 I THINK HE WANTS TO SAY SOMETHING ON BEHALF OF
20 CLINICIANS AND PATIENTS.

21 DR. DUGEL: I'D JUST LIKE TO THANK ALL OF
22 YOU. I'M HERE FOR THE FIRST TIME AND ABSOLUTELY
23 HUMBLLED BY WHAT I SEE. AND, TAYLOR, YOUR COURAGE
24 PARTICULARLY. AS A CLINICIAN AND AS A SURGEON, I
25 JUST WANT TO LET YOU KNOW WHAT IT MEANS TO BE BLIND.

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1 I SEE BLINDNESS EVERY DAY. AND WHEN PEOPLE HAVE
2 ABSOLUTELY NO SIGHT, A MOTHER IS NOT ABLE TO BRAID A
3 DAUGHTER'S HAIR, A FATHER IS NOT ABLE TO PICK OUT A
4 CHILD FROM A CLASS, AND A CHILD IS NOT ABLE TO LEAVE
5 A DARK ROOM TO PLAY OUTSIDE FOR FEAR OF STUMBLING
6 OVER A ROCK. WHAT YOU'VE GIVEN BY FUNDING THESE
7 PROJECTS IS NOT JUST VISION AND SIGHT, BUT REALLY
8 DIGNITY AND WHAT MAKES US ALL HUMAN. AND THANK YOU
9 FOR THAT.

10 (APPLAUSE.)

11 DR. KLASSEN: HELLO. I'M HENRY KLASSEN.
12 I WANT TO ECHO THE COMMENTS OF THE PEOPLE FROM JCYTE
13 AS WELL AS OUR PATIENTS AND EXPRESS OUR DEEP
14 GRATITUDE FOR COMING IN AND HELPING OUT AT THIS
15 PIVOTAL MOMENT, BUT ALSO FOR THE CONTINUED SUPPORT
16 FROM THE BEGINNING. THERE'S SO MANY FAMILIAR FACES
17 HERE, AND WE WILL KEEP GOING. AND I KNOW EVERYBODY
18 WANTS TO SEE THIS ACROSS THE FINISH LINE AS MUCH AS
19 WE DO. AND WITHIN THE LIMITS OF A CONFLICT OF
20 INTEREST, I WANT TO EXPRESS OUR WILLINGNESS AND
21 ENTHUSIASM FOR SUPPORTING THE NEXT ITERATION OF
22 CIRM. THANK YOU VERY MUCH.

23 MR. SHEEHY: THANK YOU. ANY OTHER
24 COMMENTS? THAT WAS ALL SO POWERFUL AND MOVING AND
25 THANK YOU. THANK YOU. I THINK, CHAIRMAN THOMAS.

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1 CHAIRMAN THOMAS: THANK YOU, MR. SHEEHY,
2 AND TO ALL PI'S, PATIENTS, THEIR FAMILIES WHO ARE
3 HERE TODAY WHO RECEIVED THESE AWARDS,
4 CONGRATULATIONS. AS ALWAYS, WE VERY
5 ENTHUSIASTICALLY ROOT FOR YOU AND LOOK FORWARD TO
6 REPORTS AS YOUR RESEARCH PROGRESSES. SO THANK YOU
7 FOR EVERYBODY WHO CAME. THANK YOU FOR ALL WHO
8 SPOKE. YOU'RE WHAT WE'RE ALL ABOUT. SO THANK YOU
9 VERY MUCH.

10 WE WILL TAKE A FIVE-MINUTE BREAK AT THIS
11 POINT TO ALLOW BETH TO REST HER FINGERS. THANK YOU
12 VERY MUCH.

13 (A RECESS WAS TAKEN.)

14 CHAIRMAN THOMAS: OKAY. WE NOW HAVE A
15 PRESENTATION FROM ONE OF OUR BOARD COLLEAGUES,
16 LAUREN MILLER, WHICH EVERYBODY, WITHOUT EXCEPTION,
17 IS GOING TO BE INTERESTED IN. LAUREN IS OUR PATIENT
18 ADVOCATE FOR ALZHEIMER'S AND DOES TREMENDOUS WORK IN
19 THAT AREA AND HAS GRACIOUSLY AGREED TO TALK TO US
20 ABOUT THE STATE OF RESEARCH CONCERNING BRAIN HEALTH,
21 WHICH FOR THOSE OF US WHO CONTINUE TO AGE, WHICH IS
22 MOST BY LAST COUNT, WE SHOULD FIND THIS VERY
23 INTERESTING. SO, LAUREN, IF YOU COULD TAKE IT FROM
24 HERE. THANK YOU VERY MUCH.

25 MS. MILLER: I CAN. THANK YOU. HI,

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1 EVERYONE. THIS MAY BE THE FIRST TIME SOME OF YOU
2 ARE HEARING MY VOICE SINCE I'M USUALLY SO
3 INTIMIDATED BY YOUR BRAINS AT THESE MEETINGS, BUT
4 I'M SO EXCITED TO BE TALKING TO YOU TODAY ABOUT
5 SOMETHING THAT I KNOW A LOT ABOUT, UNFORTUNATELY,
6 BUT ALSO FORTUNATELY, WHICH IS OUR BRAINS AND HOW TO
7 KEEP THEM HEALTHY.

8 SO, FIRST, A LITTLE BIT ABOUT WHAT BROUGHT
9 ME HERE TO BEING YOUR ALZHEIMER'S PATIENT ADVOCATE.
10 UNFORTUNATELY ALZHEIMER'S HAS BEEN PART OF MY LIFE
11 AS LONG AS I CAN REMEMBER. THIS, BY THE WAY, IS MY
12 FIRST POWERPOINT PRESENTATION. I'M PLAYING YOUR
13 GAME, SO BEAR WITH ME ON THIS.

14 SO, UNFORTUNATELY, MY MOM'S FATHER, MY
15 GRANDFATHER, YOU SEE HIM HERE, HE HAD ALZHEIMER'S
16 WHEN I WAS VERY YOUNG. HE PASSED AWAY WHEN I WAS
17 12. AND THEN MY GRANDMOTHER, HERE, A FEW YEARS
18 AFTER HE PASSED AWAY, SHE WAS DIAGNOSED WITH
19 ALZHEIMER'S, THEN IT WAS PARKINSON'S. THIS WAS IN
20 THE '90S. DIAGNOSES WERE WORSE THAN THEY ARE TODAY,
21 AND THEY'RE NOT EVEN GREAT TODAY. SO BACK THEN IT
22 WAS A FLIP-FLOP BACK AND FORTH, BUT DEMENTIA IT WAS,
23 AND THAT'S WHAT GOT HER, AND SHE PASSED AWAY WHEN I
24 WAS 18.

25 AND THEN, UNFORTUNATELY, WHEN I WAS 22, MY

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1 MOM, WHO WAS 52 AT THE TIME AND HAD BEEN A TEACHER
2 FOR 35 YEARS, STARTED REPEATING HERSELF. THIS
3 UNFORTUNATELY WAS FAMILIAR BEHAVIOR FOR MY FAMILY.
4 SO WHEN WE GOT THE DIAGNOSIS OF ALZHEIMER'S DISEASE
5 WHEN SHE WAS 55 YEARS OLD, NONE OF US WERE THAT
6 SURPRISED. WE WERE JUST VERY SCARED, VERY, VERY,
7 VERY SCARED.

8 MY MOM, HERE SHE IS, ADELE, WAS
9 EMBARRASSED BY THE DISEASE. SHE DIDN'T WANT US TO
10 TELL ANYONE. AS I SAID, SHE WAS A TEACHER WHO USED
11 HER VERY SMART BRAIN TO TEACH CHILDREN FOR 35 YEARS.
12 AND SO SHE WANTED US TO KEEP QUIET; BUT,
13 UNFORTUNATELY, SHE FORGOT HOW TO USE HER VOICE. SO
14 I DECIDED TO USE MINE AND TRY TO FIND SOME HOPE IN
15 WHAT HAD FELT LIKE A REALLY HOPELESS SITUATION.

16 SO WE STARTED IN 2012 BY THROWING A
17 VARIETY SHOW. I WORK AS A SCREENWRITER AND DIRECTOR
18 IN LOS ANGELES. SO I KNOW FUNNY PEOPLE AND GOT THEM
19 TOGETHER TO DO A GREAT SHOW. AND THE FIRST TIME IN
20 2012 WE RAISED \$300,000, WHICH WAS AWESOME AND FELT
21 REALLY GREAT, LIKE WE COULD MAKE AN IMPACT. BUT
22 MORE IMPORTANTLY, WHAT HAD HAPPENED WAS WE WERE
23 CONTACTED BY YOUNG PEOPLE WHO HAD BEEN AFFECTED BY
24 ALZHEIMER'S WHO HAD OFTEN BEEN OVERLOOKED BECAUSE
25 IT'S CONSIDERED A DISEASE THAT AFFECTS OLD PEOPLE,

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1 BUT I WAS 25 BEING AFFECTED BY IT AS A CAREGIVER. I
2 NEEDED TO HAVE A VOICE IN IT.

3 SO WE FOUNDED HILARITY FOR CHARITY, WHICH
4 IN THE EIGHT YEARS SINCE THEN HAS RAISED OVER \$12
5 MILLION THROUGH VARIETY SHOWS AND OTHER RESEARCH
6 FUND-RAISERS AND DINNERS WE STARTED DOING TEACHING
7 BRAIN HEALTH TO PEOPLE. AND WE FORMED A FULL
8 ORGANIZATION, WHICH HAS HELPED PEOPLE STRUGGLING
9 WITH THE DISEASE TODAY AND TOMORROW. SO WE HELP
10 PEOPLE TODAY BY CREATING ONLINE SUPPORT GROUPS FOR
11 PEOPLE THAT ARE AGE SPECIFIC AND THEY ARE ONLINE.
12 SO IF YOU'RE BUSY AND LEADING A BUSY LIFE TAKING
13 CARE OF YOUR FAMILY, YOUR PARENTS, YOUR CHILDREN,
14 YOUR JOB, YOU CAN GO ON ONLINE AND CONNECT WITH
15 OTHER CAREGIVERS, WHICH IS SO IMPORTANT.

16 WE'VE ALSO CREATED A PARTNERSHIP WITH A
17 COMPANY CALLED HOME INSTEAD SENIOR CARE. CARING FOR
18 SOMEONE WITH ALZHEIMER'S, IF YOU'VE EVER DONE IT, IS
19 EXTREME. IT IS EXPENSIVE. ALZHEIMER'S IS THE
20 COSTLIEST DISEASE IN THIS ENTIRE COUNTRY. CARING
21 FOR SOMEONE TO KEEP AT HOME IS ESSENTIALLY
22 UNAFFORDABLE UNLESS YOU ARE WILDLY WEALTHY AND
23 EXTREMELY LUCKY. SO WE'VE CREATED THIS PROGRAM TO
24 HELP PEOPLE KEEP THEIR LOVED ONES AT HOME IF THEY
25 CAN'T AFFORD IT AND THEY SO CHOOSE.

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1 IN THE FOUR YEARS SINCE WE'VE ESTABLISHED
2 THIS PROGRAM, WE HAVE GIVEN AWAY OVER 270,000 HOURS
3 OF FREE AT-HOME CARE TO PEOPLE, WHICH IS PRETTY
4 AMAZING.

5 BUT WHY I'M HERE TODAY, WHICH IS BRAIN
6 HEALTH. UNFORTUNATELY, AS EVERYONE KNOWS, THERE'S
7 UNFORTUNATELY NO TREATMENT OR INTERVENTION WHICH
8 CURRENTLY SLOWS OR CAN CURE ALZHEIMER'S. THERE IS
9 ALSO NO ONE-SIZE-FITS-ALL APPROACH. YOU CAN DO
10 EVERYTHING RIGHT AND YOU COULD STILL GET ALZHEIMER'S
11 DISEASE. I CAN'T IMAGINE I NEED TO SPEND MUCH TIME
12 TELLING ANY OF YOU THAT, AGAIN, THERE'S NOTHING THAT
13 CAN SLOW OR CURE THIS DISEASE. THERE ARE CURRENTLY
14 FOUR FDA-APPROVED DRUGS THAT MAYBE HELP SOME
15 SYMPTOMS IN CERTAIN CASES; BUT OTHER THAN PERHAPS
16 THIS, IF ANYONE READ, THAT BIOGEN BREATHED LIFE INTO
17 IT, A STUDY THAT THEY HAD DONE FOR A DRUG THAT CAN
18 AFFECT POTENTIALLY BETA AMYLOID THAT IS GOING TO GO
19 TO THE FDA. IT WAS ORIGINALLY ABANDONED, BUT THEY
20 HAVE BREATHED NEW LIFE INTO IT. WE'LL SEE WHAT
21 HAPPENS. I DON'T KNOW.

22 RIGHT NOW, VERY, VERY, VERY SMART DOCTORS
23 HAVE TOLD ME OVER AND OVER AGAIN THE CONCRETE
24 EVIDENCE THAT WE HAVE SHOWS THAT THE BEST THINGS WE
25 CAN DO FOR OUR BRAINS, WHICH IS TO TAKE CARE OF THEM

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1 TODAY AND DO A NUMBER OF LIFESTYLE CHANGES, LIVING A
2 BRAIN HEALTHY LIFESTYLE, AND THAT IS THE THING THAT
3 PERHAPS WE COULD DELAY OR EVEN PREVENT DEMENTIA. IF
4 WE CAN DELAY IT, PERHAPS SCIENCE WILL CATCH UP WITH
5 A CURE, OR WE CAN PREVENT IT ALTOGETHER.

6 SO HERE WE ARE. OKAY. SO WE KNOW
7 ALZHEIMER'S, IT SEEMS, STARTS IN THE BRAIN 20 TO 30
8 YEARS BEFORE THE FIRST SYMPTOMS APPEAR. AGE IS THE
9 BIGGEST RISK FACTOR AT THIS POINT. OUR POPULATION
10 IS AGING, WHICH IS WHY THE NUMBER OF CASES OF
11 ALZHEIMER'S ARE INCREASING.

12 THE NIH REPORTS THAT ONE IN SEVEN PEOPLE
13 OVER THE AGE OF 71 WILL HAVE DEMENTIA OF SOME KIND.
14 EVERY FIVE YEARS AFTER THE AGE OF 65, THE RISK OF
15 ALZHEIMER'S ACTUALLY DOUBLES. AND BY THE TIME AN
16 INDIVIDUAL REACHES 85, HE OR SHE HAS A 50-PERCENT
17 CHANCE OF HAVING ALZHEIMER'S. BLEAK, I KNOW, BUT
18 THERE'S HOPE.

19 IT SEEMS LIKE ONE IN THREE CASES OF
20 ALZHEIMER'S MAY BE PREVENTABLE IF WE MAKE THE
21 CHOICES TO LIVE A BRAIN HEALTHY LIFESTYLE TODAY. SO
22 WHEN IT COMES TO OUR BRAINS, WE HAVE BOTH MODIFIABLE
23 AND NONMODIFIABLE RISK FACTORS. WHO CAN TELL ME
24 WHAT ARE TWO KEY NONMODIFIABLE RISK FACTORS WHEN IT
25 COMES TO BRAIN HEALTH? (INAUDIBLE RESPONSE.)

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1 THAT'S MODIFIABLE. WHAT IS A NONMODIFIABLE?
2 GENETICS AND AGE. THERE WE GO.

3 SO I'M SURE A LOT OF YOU HAVE -- I WON'T
4 SPEND A LOT OF TIME ON THIS -- SPECIFIC THOUGHTS
5 ABOUT GENETIC TESTING, DOING A DEEP DIVE INTO YOUR
6 GENETICS. I PERSONALLY HAVE DONE A DEEP DIVE INTO
7 MY OWN GENETICS. SO I CAN TAKE MY BRAIN HEALTH
8 CHOICES VERY SPECIFIC AND PERSONALIZED TO MY OWN
9 HEALTH. HOWEVER, I'M GOING TO TELL YOU ABOUT SOME
10 THINGS TODAY THAT EVERYONE CAN DO DEPENDING ON YOUR
11 OWN GENETICS.

12 I WILL GIVE A QUICK REVIEW, AND I'M SURE I
13 DON'T NEED TO SAY THIS, BUT THE APOE GENE IS THE
14 GENE THAT IS COMMONLY DISCUSSED WHEN IT COMES TO
15 ALZHEIMER'S. THERE'S APOE2, APOE3, APOE4. HAVING
16 ONE OR MORE COPIES OF APOE2 ACTUALLY CAN TRANSLATE
17 TO A REDUCED RISK OF ALZHEIMER'S. SO IF YOU HAVE AN
18 APOE2, CONGRATULATIONS. GOOD FOR YOU. I'M JEALOUS.

19 HAVING ONE COPY OF APOE4 SOMEWHAT
20 INCREASES YOUR RISK OF LATE ONSET ALZHEIMER'S. TWO
21 COPIES MAY INCREASE IT MORE. HOWEVER, IF YOU HAVE
22 ONE OR TWO COPIES, THAT DOES NOT MEAN YOU WILL
23 DEFINITELY GET ALZHEIMER'S DISEASE. SO JUST BE
24 AWARE OF THAT BECAUSE SOME OF THOSE GENES CAN BE
25 SCARY, AS WE KNOW.

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1 SO MODIFIABLE RISKS. THERE'S DIET,
2 THERE'S HIGH BLOOD PRESSURE, THERE'S LACK OF
3 EXERCISE, SLEEP, MENTAL STIMULATION, EMOTIONAL
4 WELLBEING. LET'S DEEP DIVE INTO EACH OF THESE
5 TOPICS.

6 SO, FIRST, SLEEP. THIS IS ONE OF THE
7 EASIEST THINGS THAT WE CAN ALL DO TO INCREASE THE
8 HEALTH OF OUR BRAINS. IT'S FREE. SO YOU MIGHT AS
9 WELL TRY IT. SO WE NEED GOOD SLEEP HYGIENE. SO
10 WHAT EXACTLY DOES THAT MEAN? IT'S A NUMBER OF
11 THINGS. YOU WANT TO SLEEP AT LEAST SEVEN AND A HALF
12 HOURS A DAY. WHAT THAT MEANS IS BEING IN BED FOR
13 EIGHT AND A HALF TO NINE HOURS A DAY. THAT IS VERY
14 DIFFICULT FOR PEOPLE. HOWEVER, IT WILL BECOME MORE
15 DIFFICULT WHEN YOU HAVE DEMENTIA, SO YOU MIGHT AS
16 WELL DO IT NOW. MAKE THE TIME.

17 YOU WANT TO AVOID CAFFEINATED BEVERAGES
18 AFTER 1 P.M. BECAUSE THOSE THINGS CAN AFFECT YOUR
19 SLEEP QUALITY LATER ON IN THE EVENING. YOU WANT TO
20 HAVE A CONSISTENT BEDTIME. YOU WANT TO AVOID
21 ELECTRONICS, LOOKING AT YOUR PHONES, COMPUTERS,
22 TELEVISIONS ONE AND A HALF TO TWO HOURS BEFORE
23 BEDTIME. AND IF YOU GOT TO DO IT, I DO IT, YOU GET
24 GLASSES. AFTER WE DO THIS PRESENTATION, MARIA WILL
25 SEND OUT A LIST OF ITEMS THAT CAN BE HELPFUL IN

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1 KEEPING YOUR BRAIN HEALTHY.

2 SO ONE OF THEM ARE GLASSES THAT YOU CAN
3 PUT ON THAT YOU WEAR WHEN YOU WANT TO LOOK AT YOUR
4 PHONE BEFORE YOU GET INTO BED. I DO IT. IT'S NOT
5 IDEAL, BUT THERE'S WAYS TO DO IT.

6 TEMPERATURE. TEMPERATURE WHEN YOU SLEEP
7 IS KEY. I'M A WOMAN; I SLEEP HOT. SO I STARTED
8 TRACKING MY SLEEP ABOUT ALMOST A YEAR AGO, I WOULD
9 SAY. I GOT THIS THING. I'M NOT GIVING YOU A
10 FINGER. IT'S CALLED THE AURA RING. THERE ARE A
11 NUMBER OF SLEEP TRACKERS OUT THERE. AURA, WHICH,
12 AGAIN, I'LL SEND YOU A LINK TO IT, HAPPENS TO BE ONE
13 OF THE BEST SLEEP TRACKERS. IT ALSO TRACKS ACTIVITY
14 AND WHATNOT. IT'S NOT AS GOOD AS SOME OF THE OTHER
15 ONES, BUT IT GIVES A VERY IN-DEPTH REPORT OF YOUR
16 SLEEP QUALITY, WHICH IS SO IMPORTANT.

17 YOU WANT TO GET BETWEEN ONE AND TWO HOURS
18 OF DEEP SLEEP EVERY NIGHT AND ONE AND TWO HOURS OF
19 REM SLEEP EVERY NIGHT. I WAS GETTING AROUND 20
20 MINUTES OF DEEP SLEEP EVERY NIGHT. BAD NEWS, SO
21 BAD. BUT I WAS SWEATING SO MUCH. I WOULD TURN MY
22 THERMOSTAT TO 68, AND THEN I WOULD CURL UP IN MY
23 BLANKET AND I WOULD SWEAT BECAUSE I WAS COLD AND HOT
24 AND COLD AND HOT. SO I GOT WHAT'S CALLED A CHILLY
25 PAD. AGAIN, WE'LL SEND A LINK. IT'S UNSIGHTLY, BUT

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1 IT KEEPS YOUR BED COOL. SO WHEN YOU'RE UNDER YOUR
2 BLANKET AND YOU CURL UP, IT KEEPS YOUR BODY COOL. I
3 HAVE ADDED AN ADDITIONAL 20 TO 25 MINUTES OF DEEP
4 SLEEP EVERY SINGLE NIGHT ON AVERAGE SINCE I BOUGHT
5 THIS THING. SO TEMPERATURE IS KEY TO SLEEP QUALITY.

6 NUTRITION, IT'S NOT THE MOST FUN CATEGORY
7 BECAUSE IT'S HALLOWEEN. WE WANT TO EAT COOKIES AND
8 SUGAR, BUT I DON'T NEED TO TELL YOU SUGAR, BAD NEWS,
9 REALLY, REALLY BAD NEWS. JUST AVOID IT. HOWEVER,
10 LOOK, I WORK WITH REALLY SMART BRAIN DOCTORS. ALL
11 OF THEM HAVE SUGAR ON OCCASION. WE'RE HUMANS. IT'S
12 IMPORTANT TO HAVE BALANCE IN YOUR LIFE AND HAVE
13 SPECIAL OCCASIONS. BUT FOR THE MOST PART, NO SUGAR,
14 PLEASE.

15 SO THERE A NUMBER A DIFFERENT TYPES OF
16 DIETS. I WON'T GO INTO THE SPECIFICS OF THEM. BUT
17 BASICALLY THE SORT OF IDEA OF A MEDITERRANEAN-STYLE
18 DIET, FOODS THAT ARE HIGH IN OMEGA 3S, FISH,
19 BLUEBERRIES HAVE GREAT ANTIOXIDANTS FOR YOUR BRAIN,
20 DARK LEAFY GREENS, OLIVE OIL. THEY SAY THAT TWO
21 TABLESPOONS OF OLIVE OIL EVERY DAY OF GOOD QUALITY
22 OLIVE OIL. YOUR OLIVE OIL QUALITY IS REALLY
23 IMPORTANT. YOU WANT TO MAKE SURE THAT YOU ARE
24 GETTING REAL OLIVE OIL BECAUSE FAKE OLIVE OIL ISN'T
25 GOING TO GIVE YOU THOSE BENEFITS FOR YOUR BRAIN.

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1 AGAIN, THERE ARE A NUMBER OF DIETS. DASH, MIND,
2 FINGER DIET, YOU CAN LOOK ALL OF THESE UP, BUT THE
3 MEDITERRANEAN-STYLE DIET SEEMS TO BE THE MOST
4 HEALTHY FOR OUR BRAINS. OFTEN WHAT IS GOOD FOR YOUR
5 HEART IS GOOD FOR YOUR BRAIN.

6 NEXT CATEGORY, WHICH I THINK IS FUN AND I
7 DIDN'T USED TO, WHICH IS EXERCISE. LOOK, I WAS AN
8 ATHLETE GROWING UP. I WAS A GYMNAST, I WAS A
9 COMPETITIVE CHEERLEADER. YOU CAN MAKE FUN OF THAT.
10 I DON'T CARE. BUT I WAS AN ACTIVE PERSON, AND THEN
11 I BECAME A GROWNUP AND WAS, LIKE, I'M TIRED.
12 EXERCISE IS NOT FUN. AND IT TOOK ME A REAL TALKING
13 TO FROM A NEUROLOGIST WHO CARES FOR MY BRAIN TO GET
14 UP AND MOVE MY BODY. AND I DIDN'T BELIEVE HIM THAT
15 IT COULD BE ADDICTING, BUT IT CAN BE. SCIENCE TELLS
16 US THAT HIGH INTENSITY INTERVAL TRAINING IS THE BEST
17 EXERCISE YOU CAN DO FOR YOUR BRAIN.

18 I DO SOMETHING CALLED ORANGE THEORY,
19 SPINNING. THERE ARE APPS ON YOUR PHONE, WHICH YOU
20 CAN CREATE YOUR OWN HIGH INTENSITY INTERVAL
21 TRAINING, BUT THAT TYPE OF OXYGEN THAT GETS TO YOUR
22 BRAIN WHEN YOU'RE DOING A HIT WORKOUT IS EXTREMELY
23 BENEFICIAL FOR THE HEALTH OF YOUR BRAIN. YOU WANT
24 TO DO IT AT LEAST THREE TIMES A WEEK WITH A MIX OF
25 AEROBIC AND WEIGHT TRAINING. BUILDING MUSCLE IS

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1 EXTREMELY IMPORTANT TO THE HEALTH OF YOUR BRAIN.
2 HAVING A HIGH RATIO OF MUSCLE IN YOUR BODY OBVIOUSLY
3 COMPARED TO FAT, VERY IMPORTANT.

4 NEXT CATEGORY, MENTAL STIMULATION. SUPER
5 FUN. THIS ONE IS FUN. YOU CAN DO MOST OF THESE
6 SITTING DOWN, WHICH IS GREAT. HOW MANY PEOPLE DO
7 CROSSWORD PUZZLES TO KEEP YOUR BRAIN ACTIVE? WELL,
8 I HAVE SOME BAD NEWS. CROSSWORD PUZZLES ARE
9 ACTUALLY NOT THE BEST THING YOU CAN DO TO KEEP YOUR
10 BRAIN ACTIVE. THEY'RE NOT BAD. DON'T GET ME WRONG.
11 IT'S BETTER THAN, LIKE, WATCHING A REALITY
12 TELEVISION SHOW. HOWEVER, WHAT A CROSSWORD PUZZLE
13 DOES IS IT ACCESSES WHAT'S ALREADY IN YOUR BRAIN.
14 WHAT HELPS YOUR BRAIN IS LEARNING NEW INFORMATION.
15 SO WHEN I COME TO THIS MEETING AND YOU GUYS ARE
16 BLOWING MY MIND, I'M LEARNING A LOT. IT'S REALLY
17 GOOD FOR MY BRAIN.

18 SO THINGS LIKE LEARNING A MUSICAL
19 INSTRUMENT, LEARNING A NEW LANGUAGE, GOING OUT,
20 BEING SOCIAL, HAVING A VERY ACTIVE SOCIAL LIFE,
21 READING NEW INFORMATION. TEACHING YOURSELF IS KEY
22 TOWARDS STIMULATING YOUR BRAIN AND KEEPING IT
23 HEALTHY. IF YOU JUST ARE ACCESSING WHAT IS IN THERE
24 OVER AND OVER AGAIN, YOUR BRAIN DOESN'T FEEL EXCITED
25 ABOUT IT AND IT'S NOT GOING TO KEEP GROWING AND

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1 LEARNING AND STAYING HEALTHY.

2 SEEING YOUR DOCTOR REGULARLY. GENERAL
3 HEALTH IS IMPORTANT. SO WE'VE LEARNED THAT HIGH
4 BLOOD PRESSURE IN YOUR MIDLIFE ISN'T GOOD. LOW
5 BLOOD PRESSURE LATER IN LIFE, NOT SO GOOD. HIGH
6 CHOLESTEROL, NEVER GOOD. INSULIN RESISTANCE, THIS
7 SEEMS TO PLAY A KEY ROLE IN BRAIN HEALTH. YOU
8 REALLY NEED TO KEEP AN EYE ON INFLAMMATION AND HOW
9 YOUR BODY IS PROCESSING INSULIN. THAT IS EXTREMELY
10 IMPORTANT AS YOU AGE AND AS YOU TAKE CARE OF YOUR
11 BRAIN. SO REGULAR CHECKUPS WITH YOUR DOCTOR.

12 BY THE WAY, I WILL SAY DOCTORS, AS FAR AS
13 ALZHEIMER'S GO, THERE IS NO STANDARD YET AS FAR AS
14 GIVING AN ALZHEIMER'S DIAGNOSIS. AND, THEREFORE,
15 ONCE SOMEONE RECEIVES A DIAGNOSIS, A PROTOCOL OF
16 WHAT THEY FOLLOW; HOWEVER, THERE IS AN ORGANIZATION
17 CALLED US AGAINST ALZHEIMER'S THAT HAS CREATED
18 SOMETHING CALLED THE CHANGE ACT, WHICH IS HEADING TO
19 CONGRESS OR THE SENATE, I CAN'T REMEMBER, RIGHT NOW
20 AS WE SPEAK THAT WILL CREATE AN NIH STANDARD
21 PROTOCOL FOR DOCTORS TO GIVE A DIAGNOSIS AND THEN
22 CREATE A PROTOCOL FOR SOMEONE WHO RECEIVES AN
23 ALZHEIMER'S DIAGNOSIS. THIS IS A HUGE THING BECAUSE
24 SO MANY PEOPLE ARE EITHER MISDIAGNOSED OR RECEIVE A
25 DIAGNOSIS AND HAVE NO IDEA WHERE TO TURN, WHICH

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1 LEADS PEOPLE TO NOT GET DIAGNOSED AND, THEREFORE,
2 THEY DON'T DO ANY OF THESE THINGS THAT COULD PERHAPS
3 SLOW THE PROGRESSION OF THEIR DISEASE. SO SIDEBAR
4 ON THAT.

5 WHILE WE'RE ON OUR DOCTORS, SUPPLEMENTS,
6 THEY'RE PERSONAL. THERE ARE SOME THINGS THAT
7 POTENTIALLY WORK WELL FOR EVERYONE. AS I SAID, I'VE
8 DONE A DEEP DIVE, SO I KNOW MY OWN GENETICS, SO I
9 TAKE A LOT OF SPECIFIC SUPPLEMENTS THAT ARE VERY
10 SPECIFIC TO MY OWN DNA. BUT THERE ARE A LOT OF
11 THINGS THAT ARE GOOD FOR EVERYONE. OBVIOUSLY, AS WE
12 SAID, OMEGA3S, DHA, CURCUMIN. IT'S AN INTERESTING
13 THING BECAUSE MY FAMILY HAS DONE A DEEP DIVE INTO
14 BRAIN HEALTH, AS I SAID.

15 SO MY BROTHER AND I ARE BOTH THE CHILD OF
16 MY MOM, WHO HAS TWO COPIES OF APOE4. SO SHE'S A
17 4/4. MY BROTHER AND I ARE A 3/4, WHICH GIVES US ONE
18 PROTECTIVE COPY AND ONE THAT COULD POTENTIALLY
19 INCREASE RISK LATER IN LIFE. I HAVE OTHER GENES
20 THAT MY BROTHER DOES NOT HAVE. AS AN EXAMPLE, I
21 TAKE CURCUMIN; HE DOES NOT. EVEN THOUGH WE ARE
22 SIMILAR GENETICALLY, WE ARE NOT EXACT COPIES. I'M
23 NOT SAYING CURCUMIN COULD HURT HIM, BUT IT IS
24 ESPECIALLY BENEFICIAL FOR ME. SO THAT'S WHY
25 SOMETIMES DOING A DEEP DIVE INTO YOUR GENETICS, IF

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1 YOU'RE OPEN TO IT, CAN BE HELPFUL.

2 I TAKE SOMETHING CALLED COCOAVIA. IT'S A
3 SUPPLEMENT YOU CAN ADD TO YOUR COFFEE, YOU CAN TAKE
4 SUPPLEMENTS, THERE'S POWDERS, YOU CAN ADD IT TO A
5 SMOOTHIE. REAL TRUE COCOA POWDER IS REALLY HELPFUL
6 FOR YOUR BRAIN, DARK CHOCOLATE, RICH, DARK
7 CHOCOLATE, REALLY GOOD IN ANTIOXIDANTS. THAT'S
8 REALLY HELPFUL FOR YOUR BRAIN. CHOCOLATE, IT'S NOT
9 MILK CHOCOLATE, BUT IT'S PRETTY GOOD.

10 WE'RE WINDING DOWN HERE. CHILL OUT.
11 LIKE, IT IS SO IMPORTANT TO RELAX. DEPRESSION,
12 STRESS ARE SO BAD FOR THE HEALTH OF YOUR BRAIN.
13 SCIENCE TELLS US THAT A DAILY MEDITATION PRACTICE IS
14 HUGELY BENEFICIAL FOR YOUR BRAIN. THIS RING HAS
15 MEDITATIONS BUILT INTO IT. SO I CAN GO ON THE APP
16 AND SAY I WANT TO TAKE A MINDFUL MOMENT, IT WILL
17 GUIDE ME FOR FIVE MINUTES, TEN MINUTES, WHATEVER I
18 HAVE, TO RELAX. AND THAT IS, I CANNOT STRESS
19 ENOUGH, SO IMPORTANT TO RECHARGE, RESET, TAKE A
20 BREAK FOR YOUR BRAIN BECAUSE STRESS, DEPRESSION,
21 ANXIETY WILL WORK YOUR BRAIN IN A WAY THAT IS SO
22 UNHEALTHY.

23 AND, FINALLY, A THING THAT I DON'T REALLY
24 NEED TO STRESS TO THIS GROUP WHICH IS KEEP LEARNING.
25 GOOD NEWS IS THAT A HIGH IQ SEEMS TO LEAD TO LESS

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1 SIDE EFFECTS IF YOU HAVE BETA AMYLOID IN YOUR BRAIN.
2 SO EVERYONE IN THIS ROOM IS VERY FORTUNATE, I
3 IMAGINE, OR NOT. I DON'T KNOW. BUT EITHER WAY KEEP
4 LEARNING.

5 SO HILARITY FOR CHARITY, WHICH IS MY
6 ORGANIZATION, HAS PARTNERED AND INVESTED IN RESEARCH
7 WITH DR. RICHARD ISAACSON, WHO IS AN ALZHEIMER'S
8 PREVENTION DOCTOR, WHICH IS SOMETHING, IF YOU HEARD
9 THAT TERM A FEW YEARS AGO, YOU WOULD SAY THAT WAS
10 SCIENCE FICTION, BUT HE IS TREMENDOUS AND HIS WORK
11 IS ACTUALLY JUST ABOUT TO BE PUBLISHED IN ONE OF THE
12 FANCY JOURNALS. AND IT WAS *THE WALL STREET JOURNAL*
13 ACTUALLY YESTERDAY THAT DID AN ARTICLE THAT WE WILL
14 SEND TO ALL OF YOU THAT SORT OF DIVES INTO SOME OF
15 THIS A LITTLE BIT MORE. BUT WE CREATED SOMETHING
16 CALLED ALZU, WHICH IS A LEARNING SITE FOR ANYONE WHO
17 WANTS TO LEARN MORE ABOUT THEIR BRAIN. YOU CAN TAKE
18 A MUCH DEEPER DIVE INTO WHAT I'VE SAID TODAY BY
19 VISITING ALZU OR, OF COURSE, HILARITY FOR
20 CHARITY.ORG.

21 LIKE I SAID, IT IS A LIFESTYLE TO TAKE
22 CARE OF YOUR BRAIN. THERE'S SO MANY THINGS YOU CAN
23 DO. THERE'S NO ONE-SIZE-FITS-ALL APPROACH, BUT
24 LIVING A HEART HEALTHY LIFESTYLE CAN HELP YOUR
25 BRAIN. AND THESE ARE THINGS WE WANT TO DO AS WE

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1 AGE. WE'RE ALL AGING. I THINK WE ALL HAVE A BRAIN
2 HERE, SO WE MIGHT AS WELL CONTINUE THINKING ABOUT
3 THEM. DOES ANYONE HAVE ANY QUESTIONS?

4 (APPLAUSE.)

5 DR. MALKAS: WHO DID YOUR GENETIC TESTING?

6 MS. MILLER: I HAVE A FEW INTERESTING
7 DOCTORS. SO I SEE DR. CORNELL IN NEW YORK. SO WE
8 DID SOME GENETIC TESTING THERE. HE ACTUALLY WAS
9 ABLE TO GO INTO MY 23 AND ME AND OPEN UP SOMEHOW AND
10 GOT LIKE A HUNDRED PAGES OF DATA FROM THAT. AND HE
11 WAS ABLE TO DO THAT. AND THEN I SEE ANOTHER
12 INTERESTING DOCTOR. I'M GOING TO SEND YOU A PODCAST
13 ACTUALLY. HIS NAME IS PETER ATTIA. IF ANYONE IS
14 FAMILIAR, HE IS A LONGEVITY DOCTOR, IF YOU WILL. HE
15 HAS A FASCINATING PODCAST AND BOTH ARE DOCTORS WHO
16 WORK WELL. I SEE BOTH OF THEM. DID A FASCINATING
17 PODCAST ON BRAIN HEALTH. WE'LL SEND YOU A LINK TO
18 THAT. BUT THOSE ARE THE DOCTORS WHO HAVE DONE THAT.
19 I LIVE A PROTOCOL REALLY BASED ON MY OWN GENETICS.
20 THANK YOU.

21 CHAIRMAN THOMAS: THANK YOU VERY MUCH,
22 LAUREN. THAT WAS OUTSTANDING, AS EXPECTED.

23 OKAY. WE'RE GOING TO GO NOW TO DISCUSSION
24 ITEM 13, THE ECONOMIC IMPACT REPORT, HAVE DANA
25 GOLDMAN FROM USC TO PRESENT.

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1 MR. GOLDMAN: THANK YOU VERY MUCH. ONE
2 THING I CAN PROMISE IS THAT THIS IS GOING TO BE MORE
3 DRY THAN THE LAST PRESENTATION. YOU'VE GOT THE
4 L.A.-BASED SCREENWRITER AND NOW YOU'VE GOT THE
5 ECONOMIST. I THINK WHAT I WANT TO TALK ABOUT IS
6 RATHER IMPORTANT. SO HOW DO I ADVANCE THE SLIDES?

7 WHAT I WANT TO SAY IS I WANT TO TALK ABOUT
8 INVESTING IN HEALTH. AND THE SITUATION THAT'S
9 UNFOLDING HERE IS ONE WHERE WE HAVE VERY LONG-TAILED
10 POTENTIAL BENEFITS TO INVESTMENTS THAT WE ARE
11 MAKING, AND WE ARE MAKING DECISIONS TODAY THAT ARE
12 GOING TO AFFECT THE LIVES OF CALIFORNIANS GOING
13 FORWARD.

14 AND WE DID SOME MODELING FOR CIRM TO
15 REALLY UNDERSTAND WHAT THE IMPACT IS, BUT I WANT TO
16 ARGUE THAT REALLY THIS COMES DOWN TO A NEW APPROACH
17 IS NEEDED TO FIGHT DISEASE AND DISABILITY.

18 I'LL GIVE YOU AN EXAMPLE HERE OF SOME OF
19 THE DEMOGRAPHICS. THIS IS WHAT FEMALE LIFE
20 EXPECTANCY AT BIRTH LOOKED LIKE IN THE UNITED STATES
21 STARTING IN THE MID-1920S AND MOVING OUT. AND WHAT
22 YOU CAN SEE IS UNTIL ABOUT 1982, WE WERE MAKING
23 RAPID PROGRESS FIGHTING ILLNESS. AND PART OF THE
24 REASON FOR THAT, BY THE WAY, HAS A LOT TO DO WITH
25 PUBLIC HEALTH, CLEAN WATER, CLEAN AIR, SMOKING,

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1 INVESTMENTS IN TREATING INFECTIOUS DISEASE. BUT
2 WHAT HAPPENS IS IN SOME WAYS WE'VE BECOME VICTIMS OF
3 OUR OWN SUCCESS.

4 AND SO NOW WE FACE A DILEMMA, AND THESE
5 ARE DATA FOR CALIFORNIANS. AND WHAT IT SHOWS IS THE
6 RATES -- THE LIKELIHOOD OF DEVELOPING DISEASE AFTER
7 AGE 50. AND SO IT IS TRUE THAT GENETICS IS NOT
8 DESTINY; BUT IF YOU LOOK AT THE CONDITIONS UP
9 HERE -- I CAN'T READ THE NUMBERS FROM HERE -- BUT
10 THERE'S A 45-PERCENT CHANCE THAT YOU WILL DEVELOP
11 DIABETES, THERE'S ABOUT A ONE-THIRD CHANCE OF
12 STROKE, THERE ARE A BUNCH OF CANCERS LISTED. SO IT
13 IS NOT THE CASE THAT WE ARE TALKING ABOUT SPECIFIC
14 CALIFORNIANS. WE ARE TALKING ABOUT ALL
15 CALIFORNIANS. AND IF IT DOESN'T AFFECT YOU, THEN IT
16 WILL AFFECT SOME LOVED ONES.

17 THESE ARE SOME PROJECTIONS, BY THE WAY,
18 THAT WE DID FOR THE ALZHEIMER'S ASSOCIATION THAT
19 SHOW -- AND IT RELATES TO THE PREVIOUS PRESENTATION.
20 YOU CAN SEE, AND I WON'T BELABOR THE DETAILS BECAUSE
21 EVERYONE KNOWS THAT THIS IS OUR NEXT PUBLIC EPIDEMIC
22 IN SOME WAYS. BUT WHAT'S INTERESTING IS THE LINE --
23 WE'RE MISSING A SLIDE HERE. I'LL COME BACK TO IT.
24 THE POINT IS THAT WE HAVE THIS GREAT BOTH
25 DEMOGRAPHIC AND HEALTH NEED THAT'S DRIVEN IN A WAY

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1 THAT WE'VE BECOME VICTIMS OF OUR OWN SUCCESS.

2 NOW, AS AN ECONOMIST, YOU MIGHT SAY, WELL,
3 THAT'S GREAT, BUT THE PRIVATE SECTOR IS OUT THERE
4 AND THEY'RE MAKING INVESTMENTS IN THIS. WHY DO WE
5 NEED PUBLIC INVESTMENT IN THIS? I WANT TO
6 ARTICULATE A FEW REASONS.

7 THE FIRST IS THE SCIENCE IS IMPROVING, AND
8 THAT'S EVERYTHING THAT YOU DO. AGAIN, I'M AN
9 ECONOMIST, AND I KNOW MY BOUNDS AND WHAT I'M
10 SUPPOSED TO TALK ABOUT. THE WAY AS AN ECONOMIST
11 THAT WE THINK THAT THERE MIGHT ACTUALLY BE SOME
12 POTENTIAL IS WHEN WE START TO SEE THE PRIVATE SECTOR
13 INTERVENING TO MAKE THESE INVESTMENTS AS WELL. THEN
14 YOU REALIZE THAT THERE IS ENORMOUS POTENTIAL.

15 ONE OF THE MISTAKES, BY THE WAY, WHEN
16 PEOPLE THINK ABOUT THESE TYPES OF INVESTMENTS IS
17 THEY TEND TO SAY, "WELL, WHY SHOULD THE PUBLIC
18 SECTOR DO IT? MAYBE THE PRIVATE SECTOR COULD BE
19 DOING THIS." THOSE OF YOU -- A GOOD ANALOGY TO
20 THIS, IN MY VIEW, IS TO THINK ABOUT EDUCATION.

21 SO, FOR EXAMPLE, THERE'S A NUMBER OF KIDS
22 WE NEED TO EDUCATE. IF THE PUBLIC SECTOR IS
23 PROVIDING ALL THAT PUBLIC EDUCATION, THERE'S ONLY SO
24 MUCH INVESTMENT THAT CAN BE MADE AND IT CROWDS OUT
25 THE PRIVATE SECTOR. AND THE CONVERSE OF THAT IS WHY

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1 SHOULD THE PUBLIC SECTOR BE MAKING THESE
2 INVESTMENTS? THE PRIVATE SECTOR IS ALREADY DOING
3 IT.

4 WELL, THE PROBLEM WITH THAT ANALOGY IS
5 IT'S FALSE BECAUSE IN THE CASE OF EDUCATION, THERE'S
6 ONLY SET CHILDREN THAT WE CAN EDUCATE. IN THE CASE
7 OF HEALTH, THE UNMET NEED IS SO GREAT AND THE
8 POTENTIAL IS SO GREAT, THAT IT ACTUALLY IS NOT THE
9 CASE THAT PUBLIC INVESTMENT CROWDS OUT PRIVATE
10 INVESTMENT. IN FACT, THE EVIDENCE SHOWS, AND WE'VE
11 SEEN THIS FROM THE AGGLOMERATION OF WHAT'S GOING ON,
12 OR YOU COULD JUST LOOK ACROSS THE BAY AND SEE WHAT'S
13 GOING ON AT UCSF, AND YOU WILL SEE THAT THE
14 INVESTMENTS IN THE PUBLIC SECTOR ACTUALLY ACCELERATE
15 WHAT'S GOING ON IN THE PRIVATE SECTOR. SO YOU CAN
16 THINK OF THIS AS SEED MONEY.

17 THIS IS WHY, IF YOU GO TO WASHINGTON LIKE
18 I DO, WHICH IS ALWAYS HAZARDOUS TO YOUR HEALTH -- BY
19 THE WAY, AND I SERVED ON THE CBO'S PANEL OF HEALTH
20 ADVISORS FOR MANY YEARS. AND IT WAS SAD BECAUSE
21 IMPROVEMENTS IN HEALTH ALWAYS MADE THE DEFICIT LOOK
22 WORSE, AND SO THEY WERE UPSET THAT PEOPLE WERE
23 GETTING BETTER HEALTH. ANYWAY, IF YOU GO TO
24 WASHINGTON, YOU'LL SEE THERE'S TREMENDOUS SUPPORT
25 FOR NIH ON BOTH SIDES OF THE AISLE. AND THE REASON

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1 IS BECAUSE THEY'RE MAKING INVESTMENTS THAT COUNTRIES
2 VALUE.

3 SO JUST COMING BACK TO THE EARLIER
4 PRESENTATION, FOR EXAMPLE, WHAT YOU SEE IN THE RED
5 HERE, THE TOP LINE, IS THE STATUS QUO PROJECTION OF
6 WHAT ALZHEIMER'S LOOKS LIKE. THE PREVIOUS SPEAKER
7 MENTIONED THE BIOGEN TRIALS. IF YOU SIMULATE OUT
8 WHAT A TREATMENT DELAY IN ONSET OF ALZHEIMER'S BY
9 THREE YEARS WOULD DO TO THE ALZHEIMER'S POPULATION,
10 YOU'RE TALKING ABOUT REDUCTIONS OF ABOUT 2.5 MILLION
11 PER YEAR IN THE NUMBER OF PEOPLE AFFLICTED BY LATE
12 STAGE DISEASE. THAT IS A RATHER REMARKABLE POINT.

13 AND INVESTMENTS LIKE THESE, AND WE'LL GET
14 TO IT IN THE CONTEXT OF CIRM, WOULD MORE THAN
15 JUSTIFY THE ENTIRE BUDGET OF CIRM. IN FACT, IT
16 WOULD EVEN JUSTIFY THE ENTIRE BUDGET OF NIH. SO YOU
17 ARE MAKING SOME BIG BETS, AND JUST A FEW NEED TO BE
18 SUCCESSFUL TO DO THIS.

19 SO THE THIRD PIECE, BEFORE I SHOW YOU OUR
20 RESULTS, IS I JUST WANT TO SAY AGAIN THAT THE
21 PLAYING FIELD IS TILTED WHEN IT COMES TO THESE. I
22 SAID THE PRIVATE SECTOR HAS AN IMPORTANT ROLE TO
23 PLAY, OBVIOUSLY, IN INNOVATION, BUT THE PLAYING
24 FIELD IS TILTED IN THE SENSE THAT -- ACTUALLY I
25 HEARD THIS. ONE ANALYST I REMEMBER WHEN GILEAD

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1 ANNOUNCED THEIR CURE FOR HEP-C, ONE ANALYST, PEOPLE
2 THOUGHT THEIR STOCK WOULD ROCKET, BUT ONE ANALYST ON
3 THE EARNINGS CALL SAID, "YOU'RE CURING ALL THE
4 PEOPLE WHO COULD TAKE YOUR CONDITIONS. SO HOW DO WE
5 KNOW THESE REVENUES ARE GOING TO CONTINUE?" SO THEY
6 WERE BEING PENALIZED FOR DEVELOPING A CURE.

7 THE POINT IS, IN FACT, THE PLAYING FIELD
8 IS TILTED. SO IF YOU THINK ABOUT, FOR EXAMPLE, WE
9 ARE THE BENEFICIARIES OF THE FACT THAT WE'VE
10 ESSENTIALLY ERADICATED POLIO AND SMALLPOX AND OTHER
11 DISEASES, AND WE USED TO ERADICATE MEASLES IN THE
12 UNITED STATES. YOU KNOW, THE POINT IS THAT FUTURE
13 GENERATIONS DON'T PAY ANYTHING FOR THAT INNOVATION.
14 SO THIS IS NOT JUST ABOUT US TODAY VERSUS US 15
15 YEARS AGO. IT'S ABOUT US TODAY VERSUS OUR FUTURE
16 GENERATIONS. AND ANYONE WHO HAS A CHILD WHO'S
17 SUFFERING FROM CHRONIC ILLNESS WILL TELL YOU THAT
18 THEY WANT TO MAKE SURE THAT THE INVESTMENT CONTINUES
19 SO THAT THEY DON'T HAVE TO BEAR THAT BURDEN.

20 ALL OF THIS IS BY WAY OF INTRODUCING WHAT
21 WE ACTUALLY DID. SO FEEL FREE TO GIVE ME THE HOOK
22 IF I'M GOING TOO LONG.

23 SO THERE ARE TWO ASPECTS OF THE IMPACT OF
24 CIRM, AND ONE OF THEM IS A DIRECT STIMULUS TO THE
25 ECONOMY. AND THIS IS AN IMPORTANT COMPONENT OF IT.

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1 THIS IS AN INDUSTRY THAT IS -- THE LIFE SCIENCES ARE
2 AN INDUSTRY THAT IS PART OF THE SUCCESS OF THE
3 CALIFORNIA ECONOMY. WE HAVE A VERY VIBRANT,
4 HETEROGENEOUS ECONOMY, AEROSPACE AND DEFENSE, I'M IN
5 L.A., ENTERTAINMENT AND ELSEWHERE, BUT I THINK
6 PEOPLE UNDERAPPRECIATE THE IMPORTANCE OF LIFE
7 SCIENCES IN CALIFORNIA.

8 AND WHAT WE DID IS WE WENT, AND YOU CAN
9 READ THE REPORT. IT'S HARD FOR ME TO SEE FROM HERE,
10 AND IF I TURN LIKE THIS, YOU WON'T HEAR ME. I'M
11 JUST GOING TO GIVE YOU THE BOTTOM LINE, AND I'M
12 HAPPY TO ANSWER QUESTIONS.

13 ESSENTIALLY THE SPENDING, THE GRANTMAKING
14 AND OTHER ACTIVITIES, CONDUCTED BY CIRM, ADDED
15 56,000 JOBS TO THE CALIFORNIA ECONOMY BY OUR
16 ESTIMATES. IN ADDITION, SOME OF THOSE JOBS, ALSO
17 BECAUSE CALIFORNIANS BUY THINGS FROM ELSEWHERE, IT
18 GENERATED ADDITIONAL JOBS OUTSIDE THE U.S., SO THE
19 TOTAL IS ABOUT 82,000 JOBS GENERATED.

20 AND WE CAN PUT DOLLAR VALUE ON THAT
21 BECAUSE THERE'S THIS THING IN ECONOMICS, THERE'S A
22 MULTIPLIER EFFECT. IF I GO AND GIVE YOU AN EXTRA
23 DOLLAR IN WAGES, YOU ARE GOING TO GO SPEND PROBABLY
24 80 CENTS ON THAT DOLLAR, AND YOU ARE GOING TO BUY
25 THINGS THAT ARE GOING TO ALLOW OTHER PEOPLE TO BUY

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1 THINGS. AND THAT'S WHAT'S KNOWN AS A MULTIPLIER.

2 SO WHEN YOU START ADDING ALL THIS UP, WHAT
3 YOU GET IS THAT THERE IS AN ECONOMIC ADVANTAGE IN
4 CALIFORNIA OF ABOUT 10 BILLION. AND, AGAIN, WE'RE
5 BUYING THINGS OUTSIDE, SO IT'S ABOUT 15 BILLION
6 NATIONWIDE.

7 AND EVERY TIME YOU BUY SOMETHING, THERE'S
8 TAX DOLLARS ASSOCIATED. WHEN YOU'RE EARNING, YOU'RE
9 GOING TO GENERATE. AND SO A LOT OF THIS IS COMING
10 BACK IN SOME SENSE IN TERMS OF REVENUE, AND YOU CAN
11 SEE THE NUMBERS HERE. WE'RE TALKING ABOUT 641
12 MILLION IN STATE AND LOCAL TAX REVENUES IN
13 CALIFORNIA. AND ALSO THE FEDERAL GOVERNMENT IS
14 BENEFITING FROM OUR VIRTUOUSNESS, WHICH IS A
15 UNIVERSAL SENTIMENT, NOT JUST TRUE ELSEWHERE.

16 NOW, YOU MIGHT SAY WHAT'S THE QUALITY OF
17 THOSE JOBS? IF I BUILT A CASINO, THAT WOULD ALSO
18 GENERATE JOBS. MAYBE WE WILL DO THAT. BUT THE
19 DIFFERENCE IS THAT THESE ARE VERY HIGH QUALITY JOBS.
20 HOW DO YOU MEASURE THAT? WELL, THEY'RE WELL ABOVE
21 THE MEDIAN SALARY. I DON'T THINK I HAVE TO CONVINCE
22 ANYONE HERE OF THAT.

23 IN TERMS OF DIRECT ECONOMIC BENEFITS, THAT
24 ALL IS QUITE CLEAR. I THINK, AGAIN, I WANT TO COME
25 BACK TO THE REAL ISSUE IS THE LONG-TERM PROGRESS.

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1 IF WE MAKE ANY OF THESE BETS PAY OFF IN TERMS OF
2 TREATMENT, WHAT DOES IT MEAN FOR CALIFORNIA? SO WE
3 ENTERED INTO -- WE DID SOME MODELING ACTIVITY, AND
4 REALLY TALKING ABOUT WHAT THE POTENTIAL BENEFITS
5 WOULD BE. I JUST WANT TO ARTICULATE THAT THE BURDEN
6 OF DISEASE IN CALIFORNIA IS ACTUALLY QUITE HIGH. WE
7 THINK OF CALIFORNIA AS A HEALTHY STATE, AND IN SOME
8 WAYS WE ARE. BUT, AS I SAID, A LOT OF PEOPLE ARE
9 LIVING WITH CONDITIONS, AND THESE CONDITIONS CAN BE
10 COSTLY, NOT JUST IN MEDICAL COSTS, BUT IN TERMS OF
11 THE DECREMENT AND QUALITY AND QUANTITY OF LIFE.

12 AND WE HAVE A MODEL, AND I WON'T GO
13 THROUGH THE DETAILS UNLESS YOU ASK, THAT KIND OF
14 LOOKS AT THIS. AND, OF COURSE, MORE PREVALENT
15 DISEASE OR MORE ACUTE DISEASES WILL HAVE HIGHER
16 COST. BUT ONE WAY TO READ THIS CHART IS TO SAY THAT
17 DIABETES COSTS CALIFORNIA \$746 BILLION. NOW,
18 REMEMBER, THAT'S NOT COST OF PAYING FOR THE CARE.
19 THAT'S IN THE HUMAN COST. THAT'S WHAT ECONOMISTS
20 DO, AND THAT'S WHY WE GET A BAD RAP BECAUSE WE PUT A
21 VALUE ON HEALTH. ANYWAY.

22 AND YOU CAN LOOK AT THIS ON A PER CAPITA
23 BASIS, AND YOU CAN SEE, FOR EXAMPLE, ADDRESSING LUNG
24 CANCER WOULD BE ENORMOUSLY VALUABLE BECAUSE IT'S A
25 VERY HIGHLY FATAL ILLNESS RIGHT NOW IN A LOT OF

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1 CASES AND IT AFFECTS PEOPLE AT YOUNGER AGES. BUT
2 ANY OF THESE -- THE WAY TO READ THIS GRAPH IS TO SAY
3 THAT IF YOU KNEW AT AGE 50 YOU WERE GOING TO GET
4 DIABETES, AND I'M GOING TO TELL YOU THAT 45 PERCENT
5 OF CALIFORNIANS WILL DO THAT, HOW MUCH WOULD YOU BE
6 WILLING TO PAY FOR A CURE FOR THAT? THE ANSWER
7 WOULD BE \$92,000. NOW, YOU MULTIPLY THAT BY THE
8 NUMBER OF CALIFORNIANS AND YOU GET TO AN ENORMOUS
9 NUMBER.

10 SO THE CUMULATIVE -- AND THOSE ARE SHOWN
11 HERE. SO, FOR EXAMPLE, WHAT WE FIND IS THAT IF WE
12 COULD REDUCE THE INCIDENCE -- THIS COMES BACK TO THE
13 PREVIOUS SPEAKER WHO'S TALKING ABOUT REDUCING THE
14 INCIDENCE OF ALZHEIMER'S. SUPPOSE WE ALL ENGAGED IN
15 GOOD BRAIN HEALTH. WELL, YOU COULD DO THE SAME FOR
16 DIABETES AND STROKE AND DIFFERENT CANCERS. AND WHAT
17 YOU SEE IS EVEN A 10-PERCENT REDUCTION IN DIABETES
18 WOULD BE WORTH \$60 BILLION.

19 NOW, SUPPOSE I DID THE FOLLOWING CALCULUS,
20 WHICH IS I SAID, "WELL, WHAT'S THE CHANCE WE'RE
21 GOING TO GET TO 10 PERCENT?" WELL, ACTUALLY WE KNOW
22 HOW TO DO THAT NOW. WE MIGHT HAVE A CHANCE OF
23 GETTING TO 50 PERCENT OR SOMETHING LIKE THAT. AND
24 SUPPOSE CIRM ONLY GAVE ME A 10-PERCENT CHANCE --
25 INCREASED THE CHANCE OF FINDING SUCH A TECHNOLOGY BY

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1 10 PERCENT? WELL, THAT GENERATES AN EXPECTED VALUE,
2 6 BILLION IN VALUE, TO CALIFORNIA. AND SO THE WAY
3 WE MAKE INVESTMENT DECISIONS, VERY COLD-HEARTED
4 WAYS, WE COMPARE THE EXPECTED COST WITH THE EXPECTED
5 BENEFITS. AND WHEN YOU LOOK AT THAT, IT BECOMES
6 QUITE CLEAR.

7 NOW, I DID WANT TO SAY ONE OTHER POINT
8 ABOUT MEDICAL COSTS. I DON'T WANT TO DIMINISH THE
9 POTENTIAL THAT OUR STATE MEDI-CAL PROGRAM IS FACING
10 A LOT OF BUDGETARY PRESSURE. IT CROWDS OUT
11 INVESTMENT ELSEWHERE. AND SO OUR ABILITY TO ADDRESS
12 DISEASE WILL ALSO ALLOW THE STATE TO INVEST IN OTHER
13 AREAS.

14 AND THEN THE FINAL THING, A LOT OF WHAT I
15 SHOWED THERE WAS CANCER, DIABETES, AND STROKE. I
16 THINK IT'S IMPORTANT TO UNDERSTAND THAT, AND HERE,
17 AGAIN, THE PLAYING FIELD IS TILTED AGAINST TREATING
18 RARE, BUT SEVERE DISEASE. AND SO THE POINT I WANT
19 TO MAKE, FOR EXAMPLE, IS THE POTENTIAL FOR A CURE
20 FOR SOME OF THESE EYE DISEASES, AND I WON'T GO
21 THROUGH THE DATA UNLESS YOU ASK ME TO, COULD BE
22 WORTH, BY OUR ESTIMATE, \$2.7 BILLION FOR THE COHORT
23 THAT HAS EXPERIENCED THE ILLNESS OVER THE REST OF
24 THEIR LIFETIMES. I WANT TO MAKE CLEAR THAT THE
25 INVESTMENTS THAT WE MAKE IN RARE DISEASE FAR FROM

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1 NOT RETURNING -- THEY OBVIOUSLY DON'T RETURN AS MUCH
2 AS INVESTING IN DIABETES, BUT THEY'RE ALSO MORE OF
3 AN ARGUMENT FOR PUBLIC INTERVENTION BECAUSE THE
4 PRIVATE MARKET DOESN'T HAVE INCENTIVES TO DO IT.
5 AND ON THEIR OWN THEY ALSO WOULD JUSTIFY MAKING
6 THESE INVESTMENTS, IN MY VIEW.

7 I THINK -- I'M GOING TO CONCLUDE. AS A
8 SOCIETY, WE UNDERINVEST IN HEALTH. CIRM CAME ALONG
9 AND CALIFORNIANS RECOGNIZE THAT FACT AND WERE
10 WORRIED ABOUT IT AND CAME INTO EXISTENCE. WE DID
11 WHAT WE WERE ASKED TO DO, AND WE DEMONSTRATED THAT
12 IT'S ALREADY HAD A SUBSTANTIAL ECONOMIC BENEFIT IN
13 CALIFORNIA. BUT TO ME THE REAL PROMISE IS THAT IF
14 WE COULD JUST MAKE PROGRESS IN ANY OF THESE DISEASES
15 WHERE YOU'RE MAKING INVESTMENTS, IT WOULD MORE THAN
16 JUSTIFY WHAT WE ARE DOING, WHAT YOU'RE DOING IN THIS
17 ROOM. THANK YOU.

18 (APPLAUSE.)

19 MR. TORRES: DANA, I WISH I HAD YOUR
20 SLIDES WHEN I BRIEFED THE GOVERNOR ON YOUR REPORT.
21 IT'S MUCH MORE UNDERSTANDABLE, ALTHOUGH HE DID
22 UNDERSTAND WHAT I WAS TALKING ABOUT. BUT I JUST
23 WANT TO SAY MANY OF THE BOARD MEMBERS MAY NOT KNOW,
24 BUT I AM ONE OF FIVE MEMBERS PRO BONO OF COVER
25 CALIFORNIA. AND WE'VE USED USC AND YOUR INSTITUTE A

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1 LOT IN TERMS OF OUR DATA, WHICH IS WHY I CALLED UPON
2 YOU TO SEE IF YOU WOULD BE WILLING TO DO THIS
3 ECONOMIC REPORT. IT'S THE BEST DECISION I EVER
4 MADE.

5 AND, SECONDLY, I WANT TO THANK MARIA AND
6 THE STAFF, ESPECIALLY BEN AND OTHERS, WHO WORKED SO
7 HARD, GIL AND OTHERS, IN SUPPLYING YOU THE DATA THAT
8 YOU NEEDED TO MAKE THE ADEQUATE REVIEW. IF ANYONE
9 HAS ANY DOUBT OF WHAT ECONOMIC BENEFIT THIS AGENCY
10 HAS HAD IN THE STATE OF CALIFORNIA AND THE FACT THAT
11 WE NEED TO BE RENEWED, THIS IS THE ARGUMENT IN TERMS
12 OF THE JOBS, THE ECONOMY, THE TAX REVENUE, AND ALSO
13 THE POTENTIAL FUTURE FOR CURES WHICH WILL AFFECT A
14 TREMENDOUS AMOUNT OF INCENTIVES, ESPECIALLY AS I'M
15 WORKING NOW WITH INSURERS AND COVER CALIFORNIA AND
16 EDUCATING THEM ON WHAT THESE TREATMENTS ARE GOING TO
17 BE AND THE FACT THAT, YES, THEY MAY BE EXPENSIVE
18 INITIALLY; BUT IN THE LONG TERM, THE SAVINGS WILL BE
19 PHENOMENAL FOR THE INSURANCE COMPANIES IN THIS
20 STATE.

21 SO I WANT TO THANK YOU, DANA, AND THANK
22 YOU FOR PUTTING UP WITH US AND WITH ME THROUGHOUT
23 THIS PROCESS. IT'S TAKEN A LONG TIME, BUT I THINK
24 WE'VE REACHED AN ADMIRABLE CONCLUSION. AND I CAN
25 TELL YOU THE GOVERNOR WAS IMPRESSED WITH THE

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1 RESULTS. THANK YOU.

2 MR. JUELSGAARD: IF YOU WOULDN'T MIND, I'D
3 LIKE TO GO BACK TO YOUR SLIDE 20 FOR A MOMENT. AND
4 THIS IS A QUESTION THAT ACTUALLY IS ON A DIFFERENT
5 SUBJECT. SO THIS IS, AS IT'S TITLED, THE PER CAPITA
6 LIFETIME SOCIAL VALUE GAINED FOR CURING A SELECTED
7 DISEASE. AND I WANT TO TAKE DIABETES.

8 MR. GOLDMAN: ECONOMISTS ARE GOOD AT
9 OBSCURE TITLES.

10 MR. JUELSGAARD: SO IF I READ THIS, AND
11 DEALING WITH THIS PURELY AS A MATTER OF ECONOMICS,
12 IF WE COULD CURE DIABETES FOR ANY AMOUNT OF MONEY UP
13 TO \$92,089, THAT WOULD BE AN ECONOMIC GAIN OR
14 BREAK-EVEN POINT. BUT IF WE STARTED SPENDING \$1
15 OVER THAT AND ANYTHING ABOVE THAT, THEN ECONOMICALLY
16 WE ARE NOT BETTER OFF. WE ARE WORSE OFF.

17 MR. GOLDMAN: NO. ACTUALLY THAT'S NOT
18 QUITE RIGHT, AND ACTUALLY IT GETS TO SOMETHING ART
19 SAID. IF YOU THINK -- THE REALITY IS THE COST OF
20 THESE TREATMENTS COME DOWN OVER TIME, AND YOU NEED
21 TO AGGREGATE OVER THE FUTURE GENERATIONS. THIS IS
22 JUST ONE COHORT.

23 THE INTERESTING THING IS IF -- BY THE WAY,
24 IF YOU MULTIPLY THIS UP, WHAT YOU GET IS THAT RIGHT
25 NOW THE POPULATION AGE 50 AND OLDER WOULD PAY \$1.5

1 TRILLION FOR A CURE. THAT PART IS RIGHT. BUT ONCE
2 WE DEVELOP IT, PEOPLE HAVE ACCESS TO IT. AND
3 ACTUALLY IF YOU THINK ABOUT HIV, UNITED STATES
4 IDENTIFIED EFFECTIVE, ACTIVE ANTIRETROVIRAL
5 TREATMENT IN ABOUT 20 YEARS FROM THE DIAGNOSIS, WE
6 FIRST DIDN'T EVEN KNOW WHAT CAUSED THE DISEASE, AS
7 SOME OF YOU MAY RECALL, AND WITHIN 20 YEARS WE HAD
8 HIGHLY ANTIRETROVIRAL TREATMENT, AND THAT GENERATED
9 BILLIONS IN VALUE. AND THE TREATMENTS CAME OUT AND
10 THEY WERE 15,000 A YEAR AT THE TIME. OF COURSE,
11 PEOPLE WERE UPSET BECAUSE WE DON'T WANT TO LIMIT
12 ACCESS. BUT NOW TODAY WE TREAT HIV FOR A DOLLAR A
13 DAY IN AFRICA. IN FACT, YOU COULD ARGUE THAT ONE OF
14 THE GREATEST THINGS THAT THE UNITED STATES HAS EVER
15 DONE IN FOREIGN POLICY, AND WE'VE HAD SOME MISTAKES,
16 I MIGHT ADD, WAS ACTUALLY PEPFAR WHERE WE WENT TO
17 AFRICA AND OFFERED TREATMENT FOR HIV.

18 MR. JUELSGAARD: SO LET ME ASK MY QUESTION
19 IN A DIFFERENT FASHION. SO A LITTLE LATER IN THE
20 PRESENTATION, YOU INTRODUCED THE TERM "QALY," WHICH
21 IS A TERM OF ART THAT'S USED LARGELY IN THE UNITED
22 KINGDOM THESE DAYS BY THE NHS. IS THIS NUMBER
23 EQUIVALENT TO A QALY?

24 MR. GOLDMAN: IT IS. SO LET ME TELL YOU
25 WHAT THIS NUMBER REFLECTS. WE HAVE A MODEL THAT

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1 WE'VE DEVELOPED AT USC WITH FUNDING FROM NIH AND
2 CMS, AND DEPARTMENT OF LABOR AND SOME OTHER SOURCES,
3 MCARTHUR FOUNDATION. AND THAT MODEL ALLOWS US TO
4 PROJECT OUT WHAT DISEASE WILL DO TO A POPULATION OF
5 CALIFORNIANS AND AMERICANS, TAKING INTO ACCOUNT THE
6 FACT THAT IF YOU GET -- THAT WE HAVE THESE COMPETING
7 RISKS, CARDIOVASCULAR DISEASE, CANCER, DIABETES. SO
8 YOU CAN SIMULATE SOMEONE'S LIFETIME, AND SOME OF
9 THEM ARE GOING TO GET DIABETES, ABOUT 40 PERCENT.
10 BUT YOU CAN ALSO SIMULATE IT IF THEY DIDN'T GET IT.
11 AND WHAT YOU SEE IS THEY LIVE LONGER, THEY SPEND
12 LESS TIME IN DISABILITY. AND SO WE CAN COMBINE THE
13 DISABILITY AND THE QUANTITY OF LIFE INTO WHAT OFTEN
14 IS REFERRED TO AS A QUALITY ADJUSTED LIFE YEAR.

15 MR. JUELSGAARD: SO THE REASON THAT THIS
16 IS INTERESTING TO ME, ANYWAY, IS AS MANY OF THE
17 PRODUCTS THAT WE'RE TALKING ABOUT DEVELOPING HERE
18 WILL TURN OUT TO BE VERY EXPENSIVE THERAPIES, IN
19 EXCESS OF A MILLION DOLLARS, ET CETERA. AND SO WE
20 HAVE TO HAVE SOME WAY OF DETERMINING THE VALUE
21 PROPOSITION AROUND THAT.

22 SO WHAT HAPPENS IN THE UK IS THEY HAVE A
23 COMMITTEE, NICE, THAT LOOKS AND DEVELOPS A QALY, AND
24 NICE THEN SUBMITS TO THE NHS THAT THEY SHOULD BE
25 WILLING TO PAY NO MORE THAN A CERTAIN DOLLAR AMOUNT

1 FOR ANY PARTICULAR TREATMENT, AND THAT TURNS INTO A
2 NEGOTIATION WITH THE MANUFACTURER. I FIND THIS
3 INTERESTING IN THAT TO WHAT EXTENT WE'RE GOING TO
4 WIND UP FINDING OURSELVES USING A SIMILAR APPROACH
5 TO TRYING TO FIGURE OUT WHAT'S APPROPRIATE TO TREAT,
6 HOW MUCH MONEY TO SPEND ON A TREATMENT FOR A
7 CONDITION, AND HOW MUCH DO WE UTILIZE ECONOMIC
8 VALUATION IN DOING THAT.

9 MR. GOLDMAN: WELL, SO WE HAD SIR MICHAEL
10 ROLLINS OUT TO USC. HE USED TO CHAIR NICE, WHICH IS
11 THE COMMITTEE IN THE UK THAT YOU'RE TALKING ABOUT.
12 AND WE TALKED TO HIM AND WE SAID, "HOW MUCH ARE YOU
13 WILLING IT PAY FOR INNOVATION?" AND HE GOES, "I
14 DON'T HAVE PAY FOR ANY OF IT. YOU GUYS DO." THAT'S
15 EXACTLY RIGHT.

16 SO IT'S VERY INTERESTING TO ME AS AN
17 ECONOMIST BECAUSE IF YOU LOOK WORLDWIDE, THE NUMBER
18 OF PEOPLE WHO DIE OF ALZHEIMER'S IS ABOUT 1.5
19 MILLION. THAT'S ALSO THE SAME NUMBER WHO DIE OF
20 TUBERCULOSIS. THE DIFFERENCE IS ALZHEIMER'S AFFECTS
21 AGED COUNTRIES, HIGHER INCOME COUNTRIES LIKE OURS
22 AND WESTERN EUROPE; WHEREAS, TUBERCULOSIS IS MORE OF
23 A CONCERN IN LOWER AND LESS DEVELOPED COUNTRIES.

24 AND THE ONLY INNOVATION -- THE NUMBER OF
25 TRIALS GOING ON IN ALZHEIMER'S IS MUCH HIGHER THAN

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1 THE NUMBER OF TRIALS IN TUBERCULOSIS, BUT IRONICALLY
2 TUBERCULOSIS IS GETTING PEOPLE AT EARLIER AGES. SO
3 FROM A NICE PERSPECTIVE, YOU'D SAY, WELL, WE SHOULD
4 BE INVESTING IN TUBERCULOSIS.

5 AND THE ONLY THING THAT GOT INVESTMENT IN
6 TUBERCULOSIS, IT TOOK PHILANTHROPY ON THE PART OF
7 BILL GATES TO DO THAT. WE CAN'T HAVE A SYSTEM THAT
8 RELIES ON PHILANTHROPY TO MAKE THESE INVESTMENTS.
9 AND SO WHAT I WOULD SAY ABOUT THE HIGH PRICES, HIGH
10 PRICES ARE THE PROBLEM IF YOU HAVE GENEROUS
11 INSURANCE BECAUSE IF YOU HAVE GENEROUS INSURANCE AND
12 YOU REWARD THE INNOVATIVE, AND IT HAS TO BE VALUABLE
13 INNOVATION. THERE IS AN ISSUE WHEN WE PAY A LOT FOR
14 SOMETHING THAT DOES NOTHING.

15 WHEN WE DISCOVER SOMETHING -- COMING BACK
16 TO DIABETES, THE LESSON MOST MANUFACTURERS HAVE
17 GOTTEN IS, YOU KNOW WHAT, IT'S OKAY -- I HAVE TYPE 1
18 DIABETES -- IT'S OKAY TO SPEND \$15,000 A YEAR ON
19 DIABETES; BUT IF YOU DEVELOP A CURE AND WANT TO
20 PRICE IT AT \$100,000 A YEAR, PEOPLE WILL GET UPSET
21 AND RIGHTLY SO. BUT THE RIGHT ANSWER FOR THIS IS TO
22 REWARD THE INNOVATOR AND THEN MAKE SURE PEOPLE HAVE
23 ACCESS. AND THAT'S WHAT HEALTH INSURANCE DOES.

24 MS. MILLER: I JUST HAVE TO CHIME IN. THE
25 REASON WHY THE NUMBER OF DEATHS FROM ALZHEIMER'S IS

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1 SO LOW IS BECAUSE OFTEN WHEN SOMEONE HAS
2 ALZHEIMER'S, IT IS INCORRECTLY REPORTED ON THEIR
3 DEATH CERTIFICATE WHAT THEY DIED FROM. IT IS OFTEN
4 MISREPORTED AS SOME OTHER DISEASE THAT THEY
5 DEVELOPED ALONG THE WAY THAT ADVANCED GREATLY
6 POTENTIALLY BECAUSE THEY HAD ALZHEIMER'S. AND SO
7 JUST THAT NUMBER OF REPORTED DEATHS FROM ALZHEIMER'S
8 IS --

9 MR. GOLDMAN: SORRY. THAT'S NOT DEATHS.
10 THAT'S PREVALENT CASES. SO, IN FACT, THAT IS THE
11 NUMBER OF PEOPLE LIVING WITH ALZHEIMER'S.

12 MS. MILLER: ONE AND A HALF MILLION? IS
13 THAT WHAT YOU SAID?

14 MR. GOLDMAN: SORRY. YOU TALKING ABOUT
15 THE SLIDES?

16 MS. MILLER: NO. YOU JUST SAID THAT THE
17 SAME AMOUNT OF CASES OF ALZHEIMER'S AND TUBERCULOSIS
18 WAS THE SAME.

19 MR. GOLDMAN: SORRY. I THOUGHT YOU WERE
20 TALKING ABOUT A PREVIOUS SLIDE. IN ANY EVENT, I
21 WILL SAY THAT OUR MODEL SHOWS THAT THE BURDEN OF
22 ALZHEIMER'S IS SOMEWHERE ON THE ORDER OF \$150
23 BILLION A YEAR IN DIRECT MEDICAL COSTS, AND THE
24 INFORMAL COSTS ALMOST DOUBLE THAT. SO I DON'T THINK
25 THERE'S ANY DOUBT THAT WE NEED TO INVEST IN

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1 ALZHEIMER'S. MY POINT IS WE SHOULD BE INVESTING IN
2 BOTH ALZHEIMER'S AND TUBERCULOSIS, AND WE SHOULDN'T
3 BE RELYING ON PHILANTHROPY TO DO IT, AND THAT'S WHY
4 WE NEED PUBLIC INVESTMENT.

5 I THINK, AGAIN, COMING BACK TO AN EARLIER
6 POINT, IT'S NOT THE CASE THAT THE PRIVATE MARKET IS
7 GOING TO MAKE THE LEVEL OF INVESTMENT THAT WE ALL AS
8 A SOCIETY WANT.

9 DR. MALKAS: THERE'S ALL THE ISSUES ON
10 SOMETHING LIKE -- HERE YOU'RE TALKING ABOUT DOLLARS
11 ON THE PATIENT, BUT THERE'S SO MUCH LOSS IN
12 PRODUCTIVITY AND CAPITAL BECAUSE THIS PATIENT HAS A
13 CARE TEAM AROUND THEM. ENORMOUS IMPACTS ARE IN LOST
14 PRODUCTIVITY BECAUSE OF THE PEOPLE THAT HAVE TO
15 CENTER A TEAM AROUND EACH ONE OF THESE PATIENTS. I
16 THINK YOU'RE ONLY TOUCHING A LITTLE BIT OF WHAT THE
17 LOSS AND COSTS ARE.

18 MR. GOLDMAN: WE WRITE A LOT ON THAT. I
19 GUESS MY POINT IS THE HEALTH BENEFITS -- IT TURNS
20 OUT THAT IN MOST CASES, ESPECIALLY IN DISEASES THAT
21 AFFLICT PEOPLE AT OLDER AGES, IT'S THE HEALTH
22 BENEFITS THAT SWAMP THE PRODUCTIVITY COSTS. BUT YOU
23 THINK ABOUT MIGRAINE, YOU THINK ABOUT DIABETES, AND
24 OTHERS, OUR MODEL ACTUALLY TAKES INTO ACCOUNT
25 PEOPLE'S EARNINGS CAPACITY AND THE ABILITY TO

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1 GENERATE THAT, AND THAT'S ACTUALLY IN OUR NUMBERS.
2 I JUST HAVEN'T ARTICULATED IT, BUT YOU'RE RIGHT.
3 THIS IS WHY WEALTHY SOCIETIES WANT TO INVEST IN
4 HEALTH. IT'S AN IMPORTANT POINT.

5 ALSO, AS YOU MENTIONED EARLIER WHEN YOU
6 ARE TALKING ABOUT CAREGIVING, CAREGIVERS WHO ARE
7 REQUIRED TO DO THIS, THERE'S AN ENORMOUS AMOUNT OF
8 LOST PRODUCTIVITY IF SOMEONE HAS TO STAY HOME AND
9 TAKE CARE OF SOMEONE WHO'S SICK. BY THE WAY, IT'S
10 MORE DETRIMENTAL FOR LOW-INCOME HOUSEHOLDS. SO IT
11 EXACERBATES THE HEALTH DISPARITIES THAT WE HAVE.

12 CHAIRMAN THOMAS: I HAVE A QUESTION. THIS
13 IS INFECTIOUS DISEASE AS OPPOSED TO A CELLULAR
14 THERAPY QUESTION. SO YOU'RE TALKING ABOUT
15 PHILANTHROPY IN TUBERCULOSIS. OF COURSE, THE BIG
16 DILEMMA FOR BACTERIAL INFECTIONS IS THE ECONOMIC
17 MODEL IN THE PRIVATE SECTOR FOR DEVELOPING NEW
18 ANTIBIOTICS IS REALLY BAD. AND AS A RESULT, NOBODY
19 IS DOING IT. AND SORT OF THERE ARE A LOT OF HEADS
20 IN THE SAND SUCH THAT IN THE NOT TOO DISTANT FUTURE,
21 WE REALISTICALLY COULD BE BACK AT THE PRE-PENICILLIN
22 ERA.

23 HAVE YOU DONE ANY MODELING ON THE IMPACTS
24 OF THAT IN TERMS OF WHAT THAT IS GOING TO COST DOWN
25 THE ROAD NOT VERY LONG FROM NOW?

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1 MR. GOLDMAN: WE HAVE, BUT I WILL TELL YOU
2 THE FIRST PANEL I EVER GOT KICKED OFF WAS ONE ON
3 ANTIMICROBIAL RESISTANCE. I WAS THE ECONOMIST ON
4 IT, AND EVERYONE IN THE ROOM WAS SAYING WE'RE NOT
5 INVESTING ENOUGH IN DEVELOPING ANTIBIOTICS. THAT
6 WAS THE ISSUE THEN. AND THEY ALSO SAID WE ARE USING
7 THEM TOO MUCH. AND I SAID, WELL, YOU CAN'T HAVE IT
8 BOTH WAYS. WHAT HAPPENS IS IF YOU DON'T WANT TO USE
9 THEM, BUT YOU WANT THEM IN YOUR ARSENAL, YOU'RE
10 GOING TO HAVE TO FIGURE OUT SOME WAY TO DO IT.

11 WE HAVE MODELED THIS OUT. AND THE BROADER
12 POINT -- I DIDN'T GET KICKED OFF, BY THE WAY. BUT
13 THE BROADER POINT IS THAT'S WHERE PUBLIC INVESTMENT
14 COMES IN.

15 SO, FOR EXAMPLE, ONE OF THE MOST
16 SUCCESSFUL THINGS HAS BEEN TO PROMISE THAT YOU WOULD
17 BUY A CERTAIN LIMITED QUANTITY IF SOMEONE MEETS A
18 CERTAIN THRESHOLD. SO THINK OF IT AS A PRIZE-TYPE
19 MODEL. IF YOU MEET THIS THRESHOLD, YOU'LL GET AT
20 LEAST A FLOOR ON YOUR REVENUES AND DEVELOP THIS
21 DRUG. AND THEN WE WANT TO HAVE BROAD ACCESS TO IT
22 AS PART OF OUR ARSENAL, AND THAT WOULD ENCOURAGE THE
23 INNOVATION.

24 SO I GUESS MY POINT IS YOU CAN DO IT BY
25 DIRECTLY INVESTING IN THE R&D. THAT'S THE PUBLIC

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1 FINANCE MODEL. BUT YOU COULD ALSO DO IT BY
2 GUARANTEEING OTHERS WHO ARE GOING TO DO IT THAT THEY
3 DO IT, AND THAT'S ACTUALLY WHAT THE MODEL OF THE
4 GATES FOUNDATION SAID. THEY SAID WE WANT TO GET GSK
5 TO INVEST IN ANTIMALARIALS, SO WE WILL PROMISE TO
6 BUY A VACCINE AT A CERTAIN RATE IF YOU REACH CERTAIN
7 BENCHMARKS.

8 DR. MARTIN: I'LL JUST COMMENT THAT I
9 THINK THAT THIS POINT THAT J.T. JUST BROUGHT UP IS
10 ONE THAT I CAN REMEMBER 30 YEARS AGO WHEN JERE GOYAN
11 RETIRED AS COMMISSIONER OF THE FDA, AND WE HAD A
12 CELEBRATION AT UCSF. I TALKED ABOUT THE PROBLEM OF
13 THE CONFLICT BETWEEN SOCIAL NEED AND/OR SOCIETAL
14 NEED AND CAPITALISM. AND IT'S A SITUATION THAT WE
15 ARE TALKING ABOUT WHERE WE REALLY NEED SOCIALISM AND
16 MANDATORY VACCINATION, FOR EXAMPLE, VERSUS A
17 CAPITALISM THAT IS ABSOLUTELY REQUIRED IN ORDER TO
18 DEVELOP THESE VACCINES, THESE TREATMENTS, ET CETERA.

19 AND RECENTLY, A COUPLE YEARS AGO, AT THE
20 FDA, WE WERE TALKING ABOUT THIS, AND I MADE THE
21 COMMENT THAT THERE WERE THREE PROBLEMS WITH
22 ANTIBIOTICS. ONE WAS THAT THEY SELECTED FOR
23 RESISTANCE AND HORIZONTAL TRANSMISSION, AND THE
24 OTHER IS THAT THEY WERE ESSENTIALLY, THE BIG ONE WAS
25 THAT THEY WERE ABUSED BECAUSE THEY WERE TOO CHEAP.

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1 AND THAT'S A PROBLEM. YOU CAN'T GET CAPITALISM
2 INVESTMENT IN ORDER TO BUILD THEM BECAUSE THEY ALSO
3 CURE. THAT WAS THE THIRD ONE. THEY CURE THE
4 DISEASE.

5 CHAIRMAN THOMAS: THEY'RE USED EVERY ONCE
6 IN A WHILE FOR A COUPLE WEEKS.

7 MR. GOLDMAN: THE IRONY IS IF YOU THINK
8 ABOUT THE BAD ACTORS IN, SAY, THE GENERIC INDUSTRY,
9 WHAT HAPPENED IS GENERICS GOT SO CHEAP, THAT PEOPLE
10 STOPPED MAKING THEM. AND THEN SUDDENLY YOU HAD A
11 MONOPOLY ON GENERICS BECAUSE YOU WERE THE ONLY ONE.
12 AND WE HAVE MONOPOLY POWER, WE HIKE THE PRICE. BUT
13 THERE IS AN INTERESTING ANALOGY BECAUSE IF YOU THINK
14 ABOUT IT, IN MY VIEW, SOME OF THESE DRUGS, ONCE THEY
15 GO GENERIC, WE HAVE TO MAKE SURE PATIENTS HAVE
16 ACCESS. AND WE DO THAT WITH -- THIS IS MAYBE NOT A
17 GOOD ANALOGY TODAY, BUT IN ELECTRICITY WE REGULATE
18 IT. WE KNOW EVERYONE NEEDS IT, AND WE MAKE SURE
19 THERE'S A SAFE, EFFECTIVE SUPPLY. IT TURNS OUT IT'S
20 NOT AS SAFE AND EFFECTIVE IN NORTHERN CALIFORNIA AS
21 WE THOUGHT. SO THAT'S WHY IT'S A BET. BUT THE
22 POINT IS WE GUARANTEE A FAIR RATE OF RETURN AND WE
23 MAKE SURE THERE'S ACCESS.

24 AND THERE IS AN ELEMENT OF THAT FOR DRUGS,
25 THAT YOU WANT TO MAKE SURE ONCE THINGS GO OFF

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1 PATENT. IT'S ENSHRINED IN THE CONSTITUTION THAT WE
2 PROTECT INVENTORS' RIGHTS. AND THE REASON IT'S
3 THERE IS WE WANT TO ENCOURAGE THE INNOVATION.

4 MY CONCERN IS PEOPLE DON'T REALIZE -- TO
5 AN ECONOMIST WHAT WE REALLY CARE ABOUT IS NOT PILLS.
6 WE WANT THE PRICE OF HEALTH. AND SO YOU THINK ABOUT
7 MY HIV EXAMPLE. PRIOR TO THE INTRODUCTION OF ACTIVE
8 ANTIRETROVIRAL THERAPY, THE PRICE OF HEALTH WAS
9 INFINITE. MAGIC JOHNSON ANNOUNCED THAT HE WAS
10 DIAGNOSED WITH HIV, AND I SAW HIS LAST PRESS
11 CONFERENCE. I THOUGHT THAT WAS THE LAST I WOULD
12 EVER SEE HIM BECAUSE IT WAS RIGHT BEFORE THE
13 INTRODUCTION OF THE DRUGS, AND HE HAD ENOUGH MONEY.
14 AT THAT POINT WE DIDN'T THINK THERE WAS ANYTHING.
15 NOW IN THE ULTIMATE IRONY, HE OWNS THE LOS ANGELES
16 DODGERS, AND HE'S DOING JUST FINE.

17 THE POINT IS THE PRICE OF HEALTH WENT FROM
18 INFINITE DOWN TO 15,000 A YEAR AND NOW A DOLLAR A
19 DAY. AND SO THAT TO AN ECONOMIST IS THE GREATEST
20 SALE EVER. BUT WE HAVE TO DISTINGUISH BETWEEN THE
21 PRICE OF THE TREATMENT AND THE PRICE OF THE HEALTH.
22 COMING BACK TO THESE MILLION-DOLLAR TREATMENTS, YOU
23 CAN ANNUITIZE THESE COSTS OVER A LIFETIME, AND THEY
24 WILL LOOK VERY DIFFERENT THAN WHAT THEY LOOK LIKE IF
25 WE PAY THEM ALL UPFRONT. WE JUST HAVE TO FIGURE OUT

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1 HOW TO ANNUITIZE THEM SO THE PEOPLE WHO REAP THE
2 BENEFITS ARE PAYING PART OF THE COST.

3 DR. BLUMENTHAL: AS SENATOR TORRES POINTED
4 OUT EARLIER, YOU DID A VERY INTERESTING JOB OF
5 ESTIMATING THE ECONOMIC BENEFITS OF CIRM AS WELL AS
6 THE MULTIPLICATIVE EFFECT, AND YOU ALSO DID AN
7 ANALYSIS OF THE DOLLAR BENEFITS OF GOOD HEALTH GOING
8 FORWARD FOR CURING DISEASES IN THE U.S. DID YOU
9 MAKE ANY EFFORT TO ACTUALLY ASSESS THE ECONOMIC
10 BENEFITS OF THE WORK THAT CIRM SPECIFICALLY HAS DONE
11 IN ADVANCING HEALTHCARE, WHICH IS SORT OF ANALOGOUS
12 TO YOUR FUTURES ANALYSIS, BUT ONE THAT'S MORE
13 RETROSPECTIVE IN TERMS OF THE WORK THAT CIRM HAS
14 DONE?

15 MR. GOLDMAN: WE HAVE NOT DONE A DEEP DIVE
16 INTO THE CIRM PORTFOLIO. WE DID DO DRY AMD AND
17 RETINAL PIGMENT- -- THANK YOU. I'M AN ECONOMIST AND
18 I FULLY RECOGNIZE MY LIMITATIONS -- AND THOSE ARE
19 AREAS WHERE WE'VE MADE SUBSTANTIAL PROGRESS, AND
20 THAT'S WHY WE LOOKED AT THAT. BUT I CAN'T TELL YOU
21 WITH CERTAINTY WHAT THE EXPECTED RETURN IS. WE'D
22 HAVE TO LOOK MORE BROADLY AT THE PORTFOLIO.

23 WHAT I CAN TELL YOU IS WHEN YOU LOOK AT
24 THE CONDITIONS WHERE THERE'S POTENTIAL BENEFITS,
25 THEY'RE ALL REFLECTED IN THE DISEASES THAT WE

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1 ANALYZED HERE.

2 CHAIRMAN THOMAS: ANY OTHER COMMENTS?

3 DANA, THANK YOU VERY MUCH FOR YOUR WORK AND FOR A
4 MOST INTERESTING DISCUSSION.

5 MR. GOLDMAN: THANK YOU.

6 (APPLAUSE.)

7 CHAIRMAN THOMAS: TWO OUTSTANDING
8 PRESENTATIONS BACK TO BACK.

9 SO I THINK WHAT WE'D LIKE TO DO NOW, WE'RE
10 COMING DOWN TO THE HOMESTRETCH, IF WE COULD BREAK
11 JUST TO GRAB LUNCH AND POSSIBLY RECONVENE IN TEN TO
12 FIFTEEN MINUTES TO WRAP UP. SO, BETH, IS THAT GOOD
13 BY YOU? THANKS VERY MUCH.

14 (A RECESS WAS TAKEN.)

15 CHAIRMAN THOMAS: SO WE'RE DOWN TO A FEW
16 ITEMS ON THE DISCUSSION AGENDA. WE WILL DO THE
17 CHAIR'S REPORT FIRST FOLLOWED BY THE PRESIDENT'S
18 REPORT AND THEN A RESOLUTION TO THE GRANTS WORKING
19 GROUP.

20 START THE CHAIR'S REPORT. BITTERSWEET
21 NEWS TO REPORT, WHICH IS LONGTIME, HUGELY
22 INFLUENTIAL BOARD MEMBER, SHERRY LANSING, SUBMITTED
23 HER RESIGNATION FROM THE BOARD. SHE FELT THAT SHE
24 WOULD BE IN A BETTER POSITION TO HELP WITH A NEW
25 INITIATIVE, WHICH SHE OBVIOUSLY COULD NOT DO IF SHE

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1 REMAINED ON THE BOARD. AND SO WITH RELUCTANCE AND
2 GREAT FONDNESS FOR CIRM, ALL OF THE BOARD, ALL THE
3 TEAM, ALL THE WORK WE'VE BEEN DOING, SHE SUBMITTED
4 THAT. I'M NOT GOING TO DISCUSS THAT VERY MUCH AT
5 THE MOMENT BECAUSE WE ARE MAKING PLANS TO PROPERLY
6 THANK HER AT A FUTURE MEETING, WHICH I'LL GET TO IN
7 A SECOND, BUT I JUST WANTED TO ALERT THE BOARD TO
8 THE FACT THAT SHE HAS STEPPED DOWN, HAVING BEEN ONE
9 OF THE ORIGINAL BOARD MEMBERS, AND THAT'S OBVIOUSLY
10 A HUGE DEAL FOR CIRM. AND SO I WANTED YOU TO BE SO
11 APPRISED.

12 THIS MEETING OBVIOUSLY IS AN UNUSUAL ONE.
13 WITH THE EXCEPTION OF FUNDS THAT WE HAVE EARMARKED
14 FOR SICKLE CELL PROJECTS THROUGH THE COLLABORATION
15 WITH NHLBI AND SUCH ADDITIONAL FUNDS THAT WILL BE
16 RECOVERED FROM OUTSTANDING AWARDS GOING FORWARD,
17 THIS MARKS THE END OF THIS PHASE OF CIRM AND ITS
18 ABILITY TO PUT OUT NEW MONEY AWARDS. THAT OBVIOUSLY
19 IS A MAJOR MILESTONE EVENT.

20 YOU'VE HEARD THROUGH DR. MILLAN'S
21 PRESENTATIONS, AND YOU WILL HEAR MORE, OF THE
22 TREMENDOUS STATE OF PLAY OF THE WORK THAT WE HAVE
23 ENABLED OVER THE YEARS AND ALL OF THE BEST-IN-CLASS
24 PROJECTS THAT WE HAVE FINANCED THAT, IN TURN, HAVE
25 LED TO DRAMATIC LEVERAGE FROM OTHER SOURCES THAT

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1 EXCEEDS THE AMOUNT OF MONEY WE'VE PUT OUT BY A LOT,
2 WHICH IS A REMARKABLE STATISTIC. THIS HAS ALL
3 DEVELOPED A BODY OF WORK FOR WHICH ALL OF US,
4 CURRENT AND FORMER CIRM PARTICIPANTS AND TEAMMATES,
5 SHOULD BE ENORMOUSLY PROUD.

6 HAVING SAID ALL OF THAT, THERE WILL BE
7 WORK TO DO IN THE COMING YEAR. I WOULD LIKE, AS
8 PART OF THIS DISCUSSION, TO PROPOSE THAT WE HAVE
9 THREE MEETINGS NEXT YEAR IN FEBRUARY, MAY, AND
10 SEPTEMBER. THEY'RE ALL STRATEGICALLY CALCULATED.
11 AND BY THE WAY, HOPING TO BE ABLE TO SET UP THE
12 FEBRUARY MEETING ON A DATE WHICH SHERRY CAN ATTEND.
13 SHE WAS NOT ABLE TO ATTEND TODAY, WHICH IS WHY WE'RE
14 NOT GIVING HER THE MASSIVE ACCOLADES SHE DESERVES.

15 SO THE FEBRUARY MEETING, AND ALL OF THESE,
16 BY THE WAY, WILL INCLUDE, IMPORTANTLY, REPORTS BACK
17 TO THE PUBLIC ON THE STATUS OF CIRM'S WORK AS OF
18 THOSE TECHNICAL DATES. WE MAY, IN FACT, HAVE ONE OF
19 THE MEETINGS DOWN IN LOS ANGELES SO AS TO BE ABLE TO
20 HAVE PATIENTS AND PATIENT ADVOCATES FROM THERE
21 ATTEND AS PART OF THIS REPORTING BACK TO THE PUBLIC
22 AS THEY OBVIOUSLY ARE CRITICALLY IMPORTANT
23 STAKEHOLDERS AS ARE ALL THE FOLKS STATEWIDE.

24 IN THE FEBRUARY MEETING, AT THAT POINT WE
25 WILL HAVE -- THE LANGUAGE OF THE NEW INITIATIVE WILL

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1 HAVE BEEN FINALIZED. AS WE WILL THEN KNOW WHAT THE
2 PROGRAM WILL BE, IF AND WHEN THAT INITIATIVE IS
3 PASSED, WE WILL BE COMING BACK TO TALK TO THE BOARD
4 ABOUT THE NEED TO START A DISCUSSION ON THE
5 STRATEGIC PLAN, IF AND WHEN THE NEW MEASURE PASSES.
6 AS YOU KNOW, OUR STRATEGIC PLAN CURRENTLY IN PLACE
7 RUNS THROUGH THE YEAR 2020. SO IT'S ONLY PROPER
8 THAT WE HAVE THAT CONVERSATION STARTING IN FEBRUARY.
9 THE BOARD WILL BE INTEGRALLY INVOLVED ALONG THE WAY.
10 EACH OF YOU WILL BE PARTICIPANTS AND ASKED TO GIVE
11 YOUR GUIDANCE ON VARIOUS TOPICS.

12 I WILL BE HIGHLY INVOLVED WORKING WITH DR.
13 MILLAN AND THE LEADERSHIP TEAM, WHICH WILL BE
14 MEETING AT REGULAR INTERVALS, TO DISCUSS THE
15 STRATEGIC PLAN. I, IN ADDITION TO YOU HAVING DIRECT
16 INPUT, WILL ACT AS A CONDUIT FOR YOUR COMMENTS IN
17 THOSE STRATEGIC PLAN DISCUSSIONS.

18 WE WILL ALSO BE INVOLVED THROUGH MYSELF
19 AND WORKING WITH DR. MILLAN TO DRAFT THE OUTLINES OF
20 A STRATEGIC PLAN. AND THE FIRST OUTLINE OF THE
21 STRATEGIC PLAN WILL BE BROUGHT TO MEETING NO. 2 NEXT
22 YEAR, WHICH WILL BE IN MAY, WHICH WILL ALSO BE A
23 TIME WHEN WE WILL CONSIDER THE BUDGET FOR THE COMING
24 STRETCH, WHICH WILL BE BASED ON FUNDS THAT ARE
25 AVAILABLE AS IDENTIFIED AT THAT TIME.

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1 AND THEN, AS I SAID OFF THE TOP, WE'LL
2 HAVE A REPORT BACK TO THE PUBLIC AT THAT MEETING AS
3 WELL. THE INITIATIVE, IF IT'S GOING TO MAKE IT ONTO
4 THE BALLOT, WILL BE SO NOTED IN JUNE. AND SO WE
5 NEED TO HAVE A MEETING IN SEPTEMBER AT WHICH THE
6 BOARD CONSIDERS WHETHER OR NOT TO ENDORSE THE
7 INITIATIVE FORMALLY. AND AT THAT TIME WE WILL HAVE
8 FURTHER DISCUSSION ON THE DRAFT STRATEGIC PLAN, ALL
9 OF WHICH, OF COURSE, IS NOT GOING TO BE FINALIZED
10 UNTIL AND IF THE MEASURE IS PASSED IN NOVEMBER AND
11 THE NEW BOARD CONVENES THEREAFTER. IT WILL BE THE
12 BODY THAT WILL ACTUALLY SAY YEA OR NAY ON THE
13 STRATEGIC PLAN. SO WE'LL HAVE A BENEFIT OF
14 MULTIMONTH, MULTISTAKEHOLDER BOARD HEAVY
15 PARTICIPATION IN THE PROCESS DEVELOPMENT OF THAT
16 PLAN, AND THAT WILL BE FINALIZED IN ADVANCE OF THE
17 2021 ACTUAL DECISION TO ADOPT OR NOT.

18 SO WE WILL BE ACTING REALLY AS ADVISORS,
19 IF YOU WILL, TO THE BOARD AS IT CONVENES AFTER THAT.
20 SO THERE ARE THOSE THREE BOARD MEETINGS.

21 THE APPLICATION REVIEW SUBCOMMITTEE AND
22 THE BOARD IN GENERAL, BUT AS WE HAVE HAD REGULARLY
23 TELEPHONIC MEETINGS OF THE APPLICATION REVIEW
24 SUBCOMMITTEE, IT WILL MEET ON AN AD HOC BASIS TO
25 VOTE ON SUCH PROJECTS THAT ARE RECOMMENDED BY THE

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1 GWG, WHETHER IT'S THE SICKLE CELL OR IT'S OTHER
2 PROJECTS THAT MAY BE POSSIBLE COURTESY OF FURTHER
3 RECOVERED FUNDS OR OTHER FUNDS THAT WE MAY GET.

4 I SHOULD NOTE THAT I THINK, IN ADDITION IN
5 FEBRUARY, WE ARE ALSO GOING TO WANT TO HAVE SOME
6 BRAINSTORMING AT THE BOARD LEVEL ON IF WE DO GET
7 ADDITIONAL FUNDS BACK IN, WHERE DO WE SEE MOST FIT
8 FOR THOSE TO BE DEPLOYED IN TERMS OF WHETHER IT'S
9 CLIN OR TRAN OR WHATEVER IT MIGHT BE, IT'S AT THE
10 BOARD'S PLEASURE. AND SO THAT IS HOW I SORT OF SEE
11 THE BOARD MEETINGS GOING FOR NEXT YEAR.

12 THERE ARE OTHER THINGS THAT ARE GOING TO
13 BE GOING ON, OF COURSE. WE HAVE HAD, IN TERMS OF
14 ADDITIONAL FUNDS, WE HAVE HAD AND CONTINUE TO HAVE
15 ONGOING EFFORTS TO SECURE BRIDGE FUNDING WHICH HAVE
16 NOT BEEN SUCCESSFUL TO DATE. HOWEVER, WE WILL
17 CONTINUE THOSE EFFORTS APACE AND HOPEFULLY WILL BE
18 ABLE TO REPORT BACK AT SUCH TIME AS WE ARE ABLE TO
19 HAVE SUCCESS IN THAT.

20 THE BOARD WILL CONTINUE. WE'VE ALL ACTED
21 AS AMBASSADORS FOR CIRM AND FOR WHAT WE DO. AND SO
22 I AND ALL OF US, WE CAN EXPECT TO BE CALLED UPON TO
23 SPEAK TO REPRESENT CIRM AT CONFERENCES, MEETINGS, ET
24 CETERA AS PART OF THIS ONGOING REPORTING BACK TO THE
25 PUBLIC ON WHAT WE ARE DOING.

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1 WE WILL BE VERY ACTIVE IN COMMUNICATIONS,
2 WHICH TAKES VARIOUS FORMS, WHETHER IT'S AS CALLED
3 UPON BY SENATOR TORRES IN HIS MOST ABLE STEWARDING
4 OF ISSUES THAT ARISE IN SACRAMENTO. IF HE NEEDS
5 HELP ON THAT, WE WILL BE THERE FOR THAT. WE WILL,
6 OF COURSE, WE FREQUENTLY END UP GIVING SPEECHES,
7 INTERVIEWS, EDITORIAL BOARD MEETINGS, ET CETERA. WE
8 WILL CONTINUE TO DO ALL THAT.

9 SO WHEN YOU SORT OF ADD THAT ALL TOGETHER,
10 WHILE, YES, IT'S TRUE WE ARE NOT GOING TO HAVE, WITH
11 LIMITED EXCEPTION, MEETINGS TO MAKE NEW AWARDS, WE
12 HAVE PLENTY OF WORK THAT WE CAN DO IN ADVANCE AND ON
13 THE ASSUMPTION THAT THE NEW INITIATIVE WILL PASS.

14 SO THAT'S SORT OF HOW I SEE THE GAME PLAN
15 GOING FORWARD, AND I WELCOME ANY COMMENTS ON THAT.

16 MR. SHEEHY: SO I HAD SOME QUESTIONS ABOUT
17 THE STRATEGIC PLANNING PROCESS. SO WHAT'S THE SCOPE
18 THAT YOU'RE ANTICIPATING FOR THE STRATEGIC PLAN?

19 CHAIRMAN THOMAS: WELL, I THINK THAT THAT
20 IS ONE OF THE MAJOR TOPICS FOR BOARD DISCUSSION IN
21 FEBRUARY.

22 MR. SHEEHY: AND WHAT -- LIKE -- SO I
23 THINK I'VE BEEN THROUGH THREE STRATEGIC PLANS, MORE
24 OR LESS. SO, IN GENERAL, ONE OF THE THINGS I'VE
25 BEEN VERY FRUSTRATED ABOUT IS WE'VE NEVER HAD AN

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1 HONEST LOOK BACK. SO IF YOU GO BACK TO OUR ORIGINAL
2 STRATEGIC PLAN THAT WAS DEVELOPED WHEN ZACH HALL WAS
3 THE FIRST PRESIDENT, HE ACTUALLY CONVENED A TWO-DAY
4 MEETING WITH PEOPLE FROM AROUND THE COUNTRY TO
5 ACTUALLY PROVIDE THE SCIENTIFIC INPUT. AND THEN HE
6 HAD PUBLIC MEETINGS WITH PATIENT ADVOCATES.

7 I THINK THE SECOND ONE WAS A LITTLE
8 ATTENUATED FROM THAT, AND REALLY THE ONE RANDY DID
9 WAS OPERATIONAL.

10 SO I GUESS MY FIRST KIND OF HOPE IS THAT
11 WE WOULD HAVE A VERY PUBLIC PROCESS, ESPECIALLY
12 SINCE WE'RE ASKING PEOPLE FOR \$5.5 BILLION IN ORDER
13 TO DO THIS, AND THAT WE REALLY DO ANALYZE WHAT WE'VE
14 DONE IN A FAIRLY SOPHISTICATED WAY. THE SCIENCE HAS
15 CHANGED SO DRAMATICALLY, THAT I REALLY THINK -- AND
16 WE HAD A DISCUSSION HERE AND I THINK WE ENDED UP
17 ALMOST MORE CONFUSED BEFORE WE STARTED THAN AFTER --
18 MORE CONFUSED AFTER WE HAD OUR DISCUSSION THAN WHEN
19 WE STARTED. SO I WOULD HOPE THAT WE COULD HAVE A
20 LOT OF TRANSPARENCY, A LOT OF PUBLIC PARTICIPATION.
21 IT WOULD BE VERY FRUSTRATING TO ME IF I GET A
22 DOCUMENT, ASK FOR MY REACTION, AND THEN IT'S JUST
23 DROPPED IN FRONT OF US. I WOULDN'T THINK THAT WAS A
24 LEGITIMATE PROCESS.

25 AND THE OTHER QUESTION I HAVE ABOUT THAT

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1 PLANNING IS THAT THERE ARE ELEMENTS IN THE NEW
2 MEASURE THAT COULD IMPACT -- WELL, WE HAVE
3 REQUIREMENTS. DO WE DO A STRATEGIC PLAN WITH THOSE
4 REQUIREMENTS EMBEDDED IN IT WHETHER OR NOT WE THINK
5 THAT THOSE ELEMENTS MAKE SENSE? WE HAVE TO SET UP A
6 STATEWIDE CLINIC SYSTEM WITHIN THE NEW MEASURE. I
7 DON'T UNDERSTAND HOW WE, AS A RESEARCH FUNDING
8 AGENCY, INTEND TO DO THAT. THAT'S A SERIOUS
9 UNDERTAKING. WE ARE REQUIRED TO DO CERTAIN TYPES OF
10 TRAINING PROGRAMS. WE'VE DONE SOME OF THEM BEFORE,
11 SO THAT MAY MAKE SENSE. DO WE JUST DECIDE
12 AUTOMATICALLY THAT WHAT'S IN THE MEASURE IS GOING TO
13 BE PART OF OUR STRATEGIC PLAN? THERE'S A SHARED
14 LABS PROGRAM WHICH REALLY WAS A PROGRAM THAT HAD
15 ITS FULL FUNCTION TO CREATE ADDITIONAL SPACE WHERE
16 WE COULD DO EMBRYONIC STEM CELL RESEARCH BECAUSE WE
17 HAD THE FEDERAL MANDATE TO SEGREGATE ANY FEDERALLY
18 FUNDED RESEARCH INCLUDING --

19 MR. TORRES: I THOUGHT WE COULDN'T DO
20 THAT.

21 MR. SHEEHY: WELL, I'M DISCUSSING THE
22 RELATIONSHIP BETWEEN THE INITIATIVE AND THE
23 STRATEGIC PLAN. DO WE HAVE IN OUR STRATEGIC PLAN A
24 SHARED LABS PROGRAM? DO WE HAVE IN OUR STRATEGIC
25 PLAN AN EDUCATION PROGRAM? DO WE HAVE IN OUR

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1 STRATEGIC PLAN A CLINIC NETWORK PROGRAM? DO WE
2 INCLUDE IN OUR THINKING FOR THE STRATEGIC PLAN ALL
3 OF THE ELEMENTS THAT ARE INCLUDED IN THE NEW
4 MEASURE? IT'S JUST A QUESTION.

5 CHAIRMAN THOMAS: MR. HARRISON, WOULD YOU
6 LIKE TO ADDRESS THAT ISSUE?

7 MR. HARRISON: SURE. I THINK THERE ARE
8 PERHAPS TWO APPROACHES TO THE STRATEGIC PLAN, AND
9 THEY'RE NOT MUTUALLY EXCLUSIVE. ONE APPROACH IS
10 WHAT IS CIRM'S STRATEGIC PLAN GOING FORWARD IF THERE
11 IS NO ADDITIONAL FUNDING FORTHCOMING? THE SECOND IS
12 A STRATEGIC PLAN THAT ASSUMES THAT THE BALLOT
13 MEASURE, AS IT'S FINALIZED, IS APPROVED BY THE
14 VOTERS AND PLANS FOR THE IMPLEMENTATION OF THAT. SO
15 UNDER THAT SCENARIO, THE STRATEGIC PLAN WOULD BE
16 CONSISTENT WITH WHATEVER THE MEASURE REQUIRES OR
17 MANDATES, OR WHERE IT'S PERMISSIVE, WHATEVER THE
18 BOARD DECIDES TO RECOMMEND. AND GOING FORWARD, AS
19 THE CHAIR SAID, THE ULTIMATE DECISION WOULD BE UP TO
20 THE BOARD.

21 MR. SHEEHY: THAT'S FINE. I'M NOT --
22 CURIOUS. THANK YOU. I WASN'T ANTICIPATING A LEGAL
23 ANSWER. I WAS THINKING PEOPLE MIGHT TAKE LEADERSHIP
24 AND ASSERT A POLICY ROLE, BUT THE LAW WILL DO --

25 CHAIRMAN THOMAS: WELL, I THINK THE ISSUE

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1 HERE IS WE HAVE TO CONFORM TO WHATEVER -- THAT'S WHY
2 I ASKED MR. HARRISON HERE. WE HAVE TO CONFORM TO
3 WHAT'S DICTATED OR DO WE HAVE DISCRETION. TO ME
4 GOING BACK HISTORICALLY, NOT HAVING BEEN HERE AT THE
5 OUTSET, WAS THE STRATEGIC PLAN THAT WAS FORMULATED
6 THAT JEFF REFERS TO BY ZACH, DID THAT STRICTLY
7 ADHERE TO THE FOUR CORNERS OF PROP 71, OR WERE THERE
8 SOME THINGS THAT THE BOARD DECIDED NOT TO DO? WHAT
9 IS THE HISTORY ON THIS?

10 MR. HARRISON: IT TURNS ON THE LANGUAGE OF
11 THE STATUTE. CERTAIN PROGRAMS ARE PERMISSIVE AND
12 SOME ARE MANDATED. A STRATEGIC PLAN WOULD ANALYZE
13 THOSE PROGRAMS THAT THE INSTITUTE IS REQUIRED TO
14 CARRY OUT AND THOSE PROGRAMS OVER WHICH IT HAS
15 DISCRETION, AND THE BOARD WOULD CONSIDER THOSE
16 DIFFERENT PATHS AND MAKE DECISIONS ABOUT HOW IT
17 WISHES TO PROCEED.

18 MR. JUELSGAARD: GOING BACK TO THE AMOUNT
19 THAT A LAWYER MIGHT BE INVOLVED IN THIS, THIS IS A
20 QUESTION FOR JAMES. IMAGINE THAT THE NEW STRATEGIC
21 PLAN WHICH GETS DISCUSSED, AND WHICH, OF COURSE, IS
22 ALL HAPPENING IN A PUBLIC SETTING, SO MEMBERS OF THE
23 PUBLIC CAN ATTEND, AND WE DECIDE WE'RE GOING TO CURE
24 ALZHEIMER'S. SO THAT BECOMES PART OF THE STRATEGIC
25 PLAN. DOES THAT GO BEYOND THE BOUNDS OF THE CASES

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1 THAT YOU PRESENTED?

2 MR. HARRISON: NO. AND SO I WOULD
3 ANALOGIZE THIS TO THE PLANNING PROCESS THAT THE CITY
4 OF SALINAS UNDERTOOK WHEN IT WAS CONFRONTED WITH A
5 VOTER-QUALIFIED BALLOT MEASURE THAT WOULD HAVE
6 ELIMINATED THE CITY'S UTILITY USERS TAX, WHICH WOULD
7 HAVE RESULTED IN A SIGNIFICANT DECREASE IN THE
8 CITY'S BUDGET.

9 SO WHAT THE COUNCIL DID IN RESPONSE TO
10 THAT WAS TO ENGAGE IN A PLANNING PROCESS IN WHICH IT
11 ADOPTED A BUDGET THAT WAS CONTINGENT UPON THE
12 VOTERS' APPROVAL OF THE MEASURE, AND THEN AN
13 ALTERNATIVE BUDGET THAT WAS BASED ON THE VOTERS'
14 REJECTION OF THE MEASURE.

15 SO I WOULD POSIT THAT YOU'RE IN A VERY
16 SIMILAR SITUATION TO THE CITY OF SALINAS BECAUSE YOU
17 ARE CONFRONTED WITH A SITUATION WHERE EITHER -- THIS
18 IS ALL ASSUMING, BY THE WAY, THAT THE MEASURE
19 QUALIFIES -- YOU'LL BE CONFRONTED WITH A SITUATION
20 WHERE EITHER THERE WILL BE NO ADDITIONAL FUNDS
21 FORTHCOMING BECAUSE THE VOTERS WILL REJECT THE
22 MEASURE, OR YOU WILL HAVE AN ADDITIONAL \$5.5 BILLION
23 WHICH COME WITH SOME STRINGS, IN WHICH CASE YOU'D
24 HAVE TO PLAN FOR HOW THOSE FUNDS WOULD BE EXPENDED.

25 MR. JUELSGAARD: SO LET ME JUST DISAGREE

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1 WITH YOU AS ANY GOOD LAWYER WOULD. SO THE CITY OF
2 SALINAS WAS DEALING WITH NUMBERS. THEY COULD DEAL
3 WITH NUMBERS WITH AND NUMBERS WITHOUT. WE ARE
4 TALKING STRATEGIC PLANS TEND TO BE ASPIRATIONAL IN
5 NATURE. SO NOT SO MUCH YOU'VE GOT A FIXED SET OF
6 FACTS, BUT THIS IS WHAT WE HOPE TO DO, INTEND TO DO,
7 AND THEY'RE USUALLY VERY POSITIVELY ORIENTED. I
8 DON'T EXPECT TO ANSWER THIS RIGHT HERE RIGHT NOW.
9 WE'LL WIND UP DEALING WITH THIS LATER.

10 MY CONCERN IS THAT WITH THE STRATEGIC PLAN
11 MIGHT IN SOME FASHION BE VIEWED A LITTLE DIFFERENTLY
12 THAN YOU JUST LAID IT OUT.

13 MR. HARRISON: SO THAT'S A FAIR POINT. AS
14 MR. SHEEHY OBSERVED, THIS AGENCY HAS HAD EXPERIENCE
15 WITH DIFFERENT KINDS OF STRATEGIC PLANS OVER THE
16 YEARS, SOME OF WHICH ARE MORE ASPIRATIONAL AND SOME
17 OF WHICH ARE MORE OPERATIONAL IN NATURE. SO I THINK
18 PART OF WHAT YOU'LL BE CONFRONTED WITH IS WHAT THE
19 STRATEGIC PLAN LOOKS LIKE. IN MY THINKING I'M
20 IMAGINING SOMETHING THAT IS MORE OPERATIONAL IN
21 NATURE BECAUSE YOU WILL HAVE A DECISION TO MAKE
22 ABOUT HOW \$5.5 BILLION WOULD BE ALLOCATED. IN SOME
23 CASES THERE ARE OR WILL BE POTENTIALLY RESTRICTIONS
24 ON HOW THOSE FUNDS CAN BE USED. SOME FUNDS MAY BE
25 EARMARKED. SO YOU AS A BOARD WILL BE CONFRONTED

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1 WITH THE RESPONSIBILITY FOR PLANNING FOR THAT
2 EVENTUALITY.

3 CHAIRMAN THOMAS: SO IN LIGHT OF YOUR
4 COMMENTS, I THINK THE ANSWER, JEFF, WOULD BE I THINK
5 IT'S GOING TO LARGELY DEPEND ON HOW THE BOARD VIEWS
6 THE APPROACH IT WANTS TO TAKE IN THAT PARTICULAR
7 STRATEGIC PLAN CONTEXT, NOT TO BE DECIDED HERE
8 TODAY, BUT I JUST WANTED TO GET A HANDLE ON WHAT
9 CONSTRAINTS WE MIGHT BE UNDER COURTESY OF THE
10 LANGUAGE, WHICH WILL BE FIXED AT THAT POINT, BUT
11 IT'S THEN UP TO US TO PRIORITIZE AND TO DETERMINE
12 WHETHER WE WANT IT TO BE ASPIRATIONAL, OPERATIONAL,
13 SOME COMBINATION OF WHATEVER. I THINK WE WANT TO DO
14 WHAT'S BEST TO IMPLEMENT A PROGRAM THAT WILL ACHIEVE
15 THE BEST POSSIBLE RESULTS. AND I'M SURE WE'LL HAVE
16 A VERY ROBUST DISCUSSION AT THAT POINT.

17 MR. SHEEHY: CAN I ASK A COUPLE OF
18 QUESTIONS OF COUNSEL?

19 CHAIRMAN THOMAS: CERTAINLY.

20 MR. SHEEHY: IS THERE ANYTHING THAT WOULD
21 PROHIBIT THIS BOARD FROM EXPRESSING OPINION ON THE
22 MEASURE THAT'S CURRENTLY FILED WITH THE ATTORNEY
23 GENERAL?

24 MR. HARRISON: SO AS INDIVIDUAL BOARD
25 MEMBERS, AS I MENTIONED AT THE OUTSET OF THE MEETING

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1 TODAY, YOU'RE ALL FREE TO EXPRESS YOUR OWN OPINIONS.

2 MR. SHEEHY: YOU'RE MISSING THE QUESTION.

3 SO THIS THING IS ACTUALLY OPEN RIGHT NOW TO BE
4 CHANGED.

5 MR. HARRISON: CORRECT.

6 MR. SHEEHY: SO IT'S NOT LEGAL FOR US AS A
7 BOARD TO WEIGH IN ON ELEMENTS?

8 MR. HARRISON: NO. I WAS TRYING TO
9 RESPOND TO THAT QUESTION. YOU ARE FREE IN YOUR
10 INDIVIDUAL CAPACITY TO WEIGH IN ON ELEMENTS OF THE
11 MEASURE TO PROVIDE COMMENTS TO THE AG OR TO THE
12 PROPONENT DIRECTLY. THE BOARD AS A BODY COULD
13 COLLECTIVELY WEIGH IN, BUT IT WOULD HAVE TO DO SO AT
14 A NOTICED PUBLIC MEETING AT WHICH THOSE COMMENTS
15 WERE ASSEMBLED.

16 SO THERE ARE TWO DIFFERENT WAYS IN WHICH
17 YOU AS BOARD MEMBERS CAN EXERCISE YOUR OPINION OR
18 PROVIDE YOUR INPUT. ONE IS DIRECTLY AND THE OTHER
19 WOULD BE IF THE BOARD WERE TO DECIDE TO NOTICE A
20 MEETING AND CONSIDER IT AS A WHOLE.

21 MR. SHEEHY: BECAUSE THERE'S SEVERAL
22 PROGRAMMATIC -- IN FACT, THIS, I THINK, HAS MORE
23 PROGRAMMATIC, DRAMATICALLY MORE PROGRAMMATIC
24 IMPERATIVES IN IT, REQUIREMENTS, I THINK, THAN THE
25 ORIGINAL MEASURE, NO?

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1 MR. HARRISON: IT HAS SOME ADDITIONAL ONES
2 IS THE WAY I WOULD FRAME IT.

3 MR. SHEEHY: RIGHT. THE ORIGINAL MEASURE
4 REALLY, OUTSIDE OF THE REQUIREMENT TO BUILD
5 BUILDINGS, DID NOT ACTUALLY DIRECT THE AGENCY TO
6 HAVE SPECIFIC PROGRAMS.

7 MR. HARRISON: CORRECT.

8 MR. SHEEHY: SO MY QUESTION IS WHY HAVE WE
9 NOT AS A BOARD -- WHY ARE WE NOT HAVING THIS
10 DISCUSSION? WE HAVE TILL NOVEMBER 11TH, I BELIEVE,
11 TO GET INPUT IN.

12 MR. HARRISON: NOVEMBER 18TH IS THE DATE
13 BY WHICH AMENDMENTS HAVE TO BE FILED. THE PUBLIC
14 COMMENT PERIOD CLOSSES FIVE DAYS PRIOR TO THAT.

15 MR. SHEEHY: I DON'T UNDERSTAND WHY WE AS
16 A BOARD, WHEN WE HAVE THIS WINDOW TO ASK QUESTIONS
17 AMONGST OURSELVES OF WHAT WE THINK IS APPROPRIATE TO
18 BE IN THE NEXT MEASURE, WE HAVEN'T SCHEDULED A
19 MEETING OR AGENDAD ANY DISCUSSION OF THE ELEMENTS OF
20 THE NEW MEASURE. THIS AFFECTS THE WORK THAT THE
21 AGENCY WILL DO GOING FORWARD.

22 WE HAVE BASICALLY CEDED ANY INPUT OVER
23 WHAT WILL BE -- HOW THE NEXT 5.5 BILLION WILL BE
24 SPENT IN SEVERAL REALMS.

25 MR. TORRES: NOT RELEVANT.

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1 MR. SHEEHY: AM I WRONG? AM I THE ONLY
2 BOARD MEMBER THAT FEELS LIKE WE SHOULD DECIDE -- WE
3 SHOULD AT LEAST HAVE AN OPINION WHETHER WE THINK
4 CERTAIN ELEMENTS SHOULD BE INCLUDED IN THE NEW
5 MEASURE? WE ARE RUNNING A STATE AGENCY. WE'RE
6 APPOINTED BY STATE OFFICEHOLDERS. AM I CRAZY? I
7 FEEL LIKE I'M -- NO ONE AGREES? WE SHOULD JUST HAVE
8 HANDS OFF? WHATEVER COMES UP IS FINE WITH US?

9 CHAIRMAN THOMAS: I THINK, JEFF, IF THE
10 BOARD WOULD BE INTERESTED, AND CERTAINLY BECAUSE
11 THERE ARE NEW ELEMENTS IN THE INITIATIVE BEYOND PROP
12 71, THAT IF THE BOARD IS INTERESTED IN HAVING SUCH A
13 GROUP DISCUSSION, WE DO HAVE TIME, WE COULD AGENDIZE
14 THAT AND PROCEED.

15 MR. TORRES: MR. CHAIRMAN, I DON'T
16 UNDERSTAND WHAT THE END RESULT WILL BE SINCE WE ARE
17 NOT THE WRITERS OF THIS INITIATIVE. OUR ONLY OPTION
18 AT THIS POINT IS TO SUPPLY COMMENTS TO THE ATTORNEY
19 GENERAL, CORRECT? OR TO HAVE A DIRECT CONVERSATION
20 WITH BOB KLEIN, WHICH YOU CAN OBVIOUSLY HAVE. OR
21 SUBMIT COMMENTS TO THE AG. THAT'S THE ONLY OPTION
22 WE HAVE. SO HAVING A DISCUSSION BY THE BOARD, AND I
23 THOUGHT WE HAD ONE ALREADY, BUT I GUESS I
24 MISUNDERSTOOD.

25 I JUST THINK THAT THOSE ARE THE ONLY TWO

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1 OPTIONS. IF YOU SO DESIRE, I THINK ANY BOARD MEMBER
2 IS MORE THAN ABLE AND ALLOWED TO TALK TO THE AG AS A
3 CITIZEN OF CALIFORNIA. IS THAT CORRECT OR NOT?

4 MR. HARRISON: THAT IS CORRECT.

5 MR. SHEEHY: I'M JUST ASKING, AS A BOARD,
6 DO WE PERCEIVE THAT WE HAVE A RESPONSIBILITY TO TAKE
7 POSITIONS WHILE THE MEASURE CAN STILL BE CHANGED ON
8 ELEMENTS THAT DIRECTLY REQUIRE US TO -- IT SHAPES
9 THE PROGRAM WE HAVE GOING FORWARD. IN SOME WAYS I
10 THINK IT CHANGES THE NATURE OF WHAT WE'VE BEEN DOING
11 AS AN AGENCY.

12 MR. TORRES: MY QUESTION IS DOES THAT
13 REQUIRE A VOTE OF THE BOARD TO DO THAT? IF SO, IT
14 HAS TO BE AGENDIZED. OR TAKE OUR INDIVIDUAL
15 RESPONSIBILITIES AS CITIZENS OF CALIFORNIA TO SUBMIT
16 A COMMENT TO THE ATTORNEY GENERAL INDIVIDUALLY.

17 MR. HARRISON: BOTH THOSE OPTIONS WOULD BE
18 AVAILABLE TO THE BOARD, AND THEY'RE NOT MUTUALLY
19 EXCLUSIVE.

20 DR. MARTIN: I HAVE NOT SEEN THE
21 INITIATIVE. DO I HAVE ACCESS TO IT?

22 MR. SHEEHY: YES.

23 MR. JUELGAARD: THERE WAS A LINK THAT WAS
24 SENT TO US.

25 DR. PRIETO: I GUESS I FELT CONSTRAINED

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1 ABOUT COMMENTING. I WASN'T FULLY AWARE REALLY UNTIL
2 THIS CONVERSATION THAT WE DID HAVE THAT KIND OF
3 FREEDOM TO OPERATE, IF YOU WILL. SO I THINK IF WE
4 DO NOT HAVE TIME TO MAKE COMMENTS AS A BOARD BETWEEN
5 NOW AND NOVEMBER 18TH, I GUESS IT BEHOOVES US TO
6 EXAMINE THE LANGUAGE NOW AND SUBMIT COMMENTS. IF WE
7 SUBMIT COMMENTS TO THE ATTORNEY GENERAL, WHAT'S THE
8 POTENTIAL EFFECT OF THAT VERSUS SUBMITTING COMMENTS
9 TO THE AUTHOR?

10 MR. HARRISON: THEY'RE EFFECTIVELY THE
11 SAME. THE ATTORNEY GENERAL WILL COMPILE ALL PUBLIC
12 COMMENTS THAT HIS OFFICE RECEIVES DURING THE 30-DAY
13 PERIOD FOLLOWING THE FILING OF THE MEASURE AND THEN
14 TURN THEM OVER TO THE PROPONENT. SO IT'S JUST A
15 QUESTION OF WHETHER THE ATTORNEY GENERAL DELIVERS
16 THEM OR WHETHER YOU SEND THEM DIRECTLY.

17 DR. PRIETO: AND THEN IT'S UP TO THE
18 PROPONENT TO REVISE THE LANGUAGE?

19 MR. HARRISON: CORRECT. THE PROPONENT HAS
20 THE DISCRETION TO DETERMINE WHAT TO DO, IF ANYTHING,
21 WITH THE COMMENTS.

22 MR. TORRES: ONLY THE PROPONENT.

23 MR. SHEEHY: I GET THE PROPONENT. I THINK
24 THE BOARD HAS A RESPONSIBILITY. I THINK IT'S OUR
25 JOB TO LOOK AT THIS MEASURE WHILE IT CAN STILL BE

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1 CHANGED, WHILE IT STILL CAN BE AMENDED. AND THE
2 SPONSOR HAS EVERY RIGHT TO DO WHATEVER THEY WANT;
3 BUT TO NOT DO SO, SEEMS TO ME, LIKE AN ABDICATION OF
4 RESPONSIBILITY. FRANKLY, I'M SURPRISED IT'S NOT ON
5 TODAY'S AGENDA, WHICH WOULD HAVE BEEN -- I THOUGHT
6 THAT THAT WOULD HAVE BEEN PART OF TODAY'S DISCUSSION
7 TO ON A VERY GRANULAR LEVEL, ESPECIALLY WHERE
8 THERE'S PROGRAMMATIC REQUIREMENTS, LIKE -- PART OF
9 OUR STRATEGIC PLAN IS ALREADY WRITTEN. AND ARE WE
10 OKAY WITH IT? DO WE THINK THIS IS A GOOD USE OF
11 RESOURCES? THESE ARE HANDCUFFS. WE HAVE TO FUND
12 THESE PROGRAMS. MAYBE THEY'RE GOOD IDEAS. I'M NOT
13 SAYING. ONE POINT BILLION GOES FOR BRAIN DISEASE.
14 I THINK THAT'S GREAT. THANK YOU, MS. MILLER. I
15 THINK THAT'S GREAT. YOU KNOW, WHAT ELEMENTS -- AS A
16 BOARD, DO WE JUST SAY THIS HAS BEEN DECIDED BY
17 SOMEONE ELSE OUTSIDE OF A PUBLIC FRAMEWORK FOR AN
18 AGENCY THAT'S BEEN IN EXISTENCE 16 YEARS? IT JUST
19 IS A VERY UNUSUAL PROCESS FOR ME.

20 MR. TORRES: WELL, IT'S STATUTORY AND IT'S
21 CONSTITUTIONAL, AND THAT'S WHY WE ARE RESTRICTED IN
22 THIS WAY.

23 MR. SHEEHY: WE ARE NOT RESTRICTED. WE
24 CAN LOOK AT WHAT'S IN THE MEASURE.

25 MR. TORRES: THIS IS RESTRICTED TO EVERY

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1 INITIATIVE THAT GOES FORWARD TO THE PUBLIC. IT
2 COMES BACK TO THE ATTORNEY GENERAL FOR TITLE AND
3 SUMMARY; AND DURING A CERTAIN PERIOD OF TIME, ANYONE
4 IN THE STATE CAN COMMENT ON WHETHER IT'S AB 5,
5 WHETHER IT'S A DAM PROJECT, WHETHER IT'S WHATEVER IS
6 GOING TO APPEAR ON THE BALLOT FOR CIRCULATION.
7 THAT'S THE WAY THE LAW IS WRITTEN, UNFORTUNATELY.
8 SO EITHER YOU DEAL WITH THE ATTORNEY GENERAL, WHO
9 JUST IS THE RECIPIENT OF THE COMMENTS, WHICH ARE
10 THEN TRANSFERRED TO THE PROPONENT, AND ONLY THE
11 PROPONENT, ACCORDING TO THE LAW, CAN CHANGE OR ADD.
12 THAT'S WHERE WE'RE RESTRAINED.

13 MR. SHEEHY: I'M JUST TALKING ABOUT THE
14 BOARD PLAYING A ROLE IN MAKING A COMMENT.
15 INDIVIDUALS WE CAN, BUT DO WE HAVE AN OPINION? IT
16 HAS BEEN DECIDED THAT WE DO NOT.

17 MR. TORRES: I THINK WE ARE CONSTRAINED
18 BY --

19 MR. SHEEHY: WE ARE NOT CONSTRAINED.

20 MR. TORRES: I'M SORRY. I THOUGHT THAT WE
21 WERE CONSTRAINED BECAUSE WE WOULD HAVE TO TAKE A
22 VOTE ON ANY OPINION THAT WAS ISSUED HERE.
23 OTHERWISE, YOU CAN DO IT ON YOUR OWN. IF YOU'RE
24 COMING TO THE BOARD, THEN YOU'RE GOING TO HAVE TO
25 HAVE A VOTE OF THE BOARD ON WHETHER PEOPLE AGREE

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1 WITH THAT OPINION OR NOT. OKAY. WE AGREE WITH NO.
2 1. SUBMIT IT. WE AGREE WITH NO. 2. SUBMIT IT. WE
3 DON'T AGREE WITH NO. 3. DON'T SUBMIT IT. THAT'S
4 WHAT WE'RE DEALING WITH UNFORTUNATELY. IT'S NOT
5 ANYTHING THAT WE'RE LIABLE FOR. IT'S WHAT THE LAW
6 IS.

7 MR. SHEEHY: THAT'S THE PROCESS I'M ASKING
8 FOR. I THINK WE SHOULD HAVE HAD THAT PROCESS. WE
9 SHOULD HAVE THAT PROCESS. THIS IS -- WE ARE
10 RESPONSIBLE FOR THIS AGENCY. WE ARE THE BOARD OF
11 DIRECTORS FOR AN AGENCY. A MEASURE HAS COME UP THAT
12 DIRECTLY AFFECTS THIS AGENCY, AND WE HAVE NOT
13 SCHEDULED A MEETING WITH AN AGENDA IN ORDER TO
14 REVIEW THE MEASURE, IN ORDER TO OFFER OUR OPINION ON
15 EACH ELEMENT THAT'S NEW IN THAT MEASURE.

16 AND THAT'S NOT TO GET INTO SOME SORT OF
17 CONFLICT WITH THE PROPONENT, BUT IT IS TO DO OUR
18 DUTY AS BOARD MEMBERS. WE ARE RESPONSIBLE FOR THIS.

19 MR. TORRES: WE ARE RESPONSIBLE
20 APPROPRIATELY ON WHETHER WE DECIDE TO TAKE A
21 POSITION ON THE INITIATIVE OR NOT. AND IT'S YOUR
22 PREROGATIVE, IF YOU WANT TO VOTE NO WHEN THAT MOTION
23 IS MADE OR IF IT'S EVEN MADE, THEN THAT'S YOUR
24 PREROGATIVE. THAT'S WHEN THIS BOARD WILL OFFICIALLY
25 ACT ON WHETHER TO SUPPORT AN INITIATIVE OR NOT.

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1 RIGHT NOW IT'S -- I DON'T KNOW WHETHER YOU HAD
2 CONVERSATIONS WITH BOB KLEIN RECENTLY OR NOT. I'M
3 NOT AWARE OF THAT, SO I DON'T KNOW. THAT'S THE ONLY
4 OPTIONS WE HAVE. YOU CAN'T HAVE A DISCUSSION OF THE
5 BOARD AND SAY WE'RE GOING TO SUBMIT THIS WITHOUT A
6 VOTE BY THE BOARD. IS THAT CORRECT?

7 MR. HARRISON: RIGHT. IF THE DESIGN OF
8 THE MEETING IS TO PROVIDE COMMENTS FROM THE BOARD,
9 THEN THERE WOULD BE MOTIONS TO RECOMMEND AND APPROVE
10 A SET OF COMMENTS JUST AS THE BOARD ORDINARILY DOES
11 BUSINESS.

12 MR. SHEEHY: SOMEWHERE THERE WAS A
13 DECISION MADE THAT I DID NOT PARTICIPATE IN TO NOT
14 HAVE THIS BOARD WEIGH IN AS A BODY ON THIS MEASURE.
15 AND THAT'S WHAT I'M OBJECTING TO.

16 MR. TORRES: WELL, THIS BOARD WILL HAVE
17 THAT OPPORTUNITY ONCE WE DECIDE, IF WE DECIDE, TO
18 TAKE A PUBLIC POSITION ON THIS INITIATIVE OR, AS WE
19 HAVE IN THE PAST, ANY PIECE OF LEGISLATION. YES, WE
20 WILL HAVE THAT OPPORTUNITY. THE OPPORTUNITY OF
21 GOING AD SERIATIM AT EVERY SECTION TO PROVIDE A
22 COMMENT, THAT'S UP TO YOU GUYS.

23 MR. SHEEHY: I'M NOT THE CHAIR OR VICE
24 CHAIR OF THIS BOARD WHO SETS THE AGENDA, BUT I DO
25 THINK THAT WE DO HAVE, NOT ONLY THE RIGHT, BUT THE

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1 OBLIGATION SINCE THIS MEASURE IS NOT FINALIZED. IT
2 HAS BEEN SUBMITTED. IT IS SITTING OPEN FOR PUBLIC
3 COMMENT THAT THE PROPONENT CAN EITHER TAKE OR NOT.
4 I THINK THE OPINION OF THIS BOARD WOULD HAVE WEIGHT.
5 I THINK IT IS OUR DUTY TO HAVE AN OPINION ABOUT THE
6 SPECIFIC ELEMENTS OF THIS NEW MEASURE.

7 I FEEL LIKE I'M A CRAZY PERSON HERE.

8 MR. TORRES: I WOULDN'T GO THAT FAR.

9 MR. JUELSGAARD: CAN I INTERVENE FOR JUST
10 A MOMENT? SO I THINK IT WOULD BE VALUABLE TO
11 ACTUALLY HAVE A MEETING AND TO SIT DOWN AND DISCUSS
12 THE CHANGES THAT ARE BEING MADE TO THIS ORGANIZATION
13 AS A RESULT, WITH THE PROPOSED CHANGES AS A RESULT
14 OF THIS INITIATIVE. MOST PEOPLE PROBABLY THINK ALL
15 WE'RE TRYING TO DO IS RAISE SOME MORE MONEY. IT'S
16 NOT THAT SIMPLE. THERE ARE SOME SIGNIFICANT CHANGES
17 GOING ON IN THIS ORGANIZATION THROUGH THIS PROPOSAL,
18 SOME OF WHICH I FRANKLY DON'T THINK ARE VERY
19 HELPFUL. THAT'S JUST MY OPINION. SOME OF WHICH I
20 AGREE WITH. BUT I DON'T KNOW HOW MANY OF YOU HAVE
21 HAD A CHANCE -- IT'S BEEN SENT TO US. MARIA SENT IT
22 TO US ABOUT THREE WEEKS AGO OR SO. I DON'T KNOW HOW
23 MANY OF YOU HAVE HAD A CHANCE TO SIT DOWN AND GO
24 THROUGH IT. THERE'S A LOT ACTUALLY TO DIGEST THERE.
25 WHETHER WE THEN, AS A RESULT OF

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1 UNDERSTANDING COLLECTIVELY BETTER WHAT'S IN THIS,
2 DECIDE TO ISSUE A COLLECTIVE OPINION, SEND IT TO
3 BOB, OR WHETHER WE DECIDE TO HAVE INDIVIDUAL
4 OPINIONS, THOSE OF US THAT ARE WILLING TO HAVE THOSE
5 AND INDIVIDUALLY SEND THEM TO BOB, BUT I WOULD SAY
6 GO TO BOB, NOT TO THE AG, MR. KLEIN. BUT I THINK
7 THAT WOULD PROVE VALUABLE TO THIS BODY, AT LEAST TO
8 HAVE A DISCUSSION AND A BETTER UNDERSTANDING BECAUSE
9 I WORRY THAT MAYBE THERE ARE A LOT OF PEOPLE THAT
10 REALLY HAVEN'T DELVED INTO THIS VERY CLOSELY AND AS
11 A RESULT HAVE A VERY CURSORY UNDERSTANDING, THAT ALL
12 THIS REALLY IS IS JUST RAISING MORE MONEY BECAUSE
13 IT'S REALLY JUST NOT. THERE'S A LOT OF OTHER STUFF
14 THROWN IN HERE. AS I SAID, YOU CAN GO EITHER WAY ON
15 SOME OF THOSE ISSUES.

16 CHAIRMAN THOMAS: OTHER COMMENTS? OKAY.
17 I AM PERSUADED THAT WE SHOULD HAVE THE OPPORTUNITY
18 TO DISCUSS. I DON'T KNOW WHERE THAT WILL ULTIMATELY
19 LEAD, BUT I DO KNOW THAT A NUMBER OF THE MEMBERS OF
20 THE BOARD HAVE HAD THE OPPORTUNITY TO TALK TO BOB,
21 BUT CERTAINLY NOT EVERYBODY. SO I THINK THAT THE
22 NOTION OF EVERYBODY NOW GETTING A CHANCE TO REVIEW
23 THE INITIATIVE AS DRAFTED, WE CAN NOTICE A
24 TELEPHONIC MEETING IN TEN DAYS FOR WHATEVER DATE WE
25 PICK, TEN DAYS IN ADVANCE, CORRECT?

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1 MS. BONNEVILLE: YES, THAT'S CORRECT. IF
2 THE FINAL DATE TO SUBMIT IS NOVEMBER 18TH AND THE
3 COMMENT PERIOD CLOSURES ON THE 13TH, IT WOULD HAVE TO
4 BE THE -- 18TH IS A MONDAY. SO WE ARE LOOKING AT
5 THE WEEK OF NOVEMBER 11TH IS THE SOONEST. THAT'S
6 THE ONLY WEEK THAT'S AVAILABLE FOR EVERYONE. SO IT
7 WOULD HAVE TO BE THAT WEEK OF NOVEMBER 11TH, 11TH,
8 12TH, 13TH, 14TH, OR 15TH. THAT'S THE ONLY TIME.
9 AND IF IT'S THE 11TH, I NEED TO POST TOMORROW
10 MORNING. SO THAT'S SORT OF WHAT WE ARE WORKING
11 WITH.

12 CHAIRMAN THOMAS: SO PERHAPS, SINCE TAKING
13 TIME TO POLL PEOPLE'S AVAILABILITY CAN TAKE A LOT OF
14 TIME IN AND OF ITSELF, PERHAPS WE COULD START WITH
15 THOSE WHO ARE PARTICIPATING IN THIS MEETING WHETHER
16 IN THE ROOM OR ON THE PHONE AS TO DATES THE WEEK OF
17 THE 11TH THAT WORK SO THAT MARIA CAN COMPILE RIGHT
18 NOW AND WE CAN PROPERLY AGENDIZE.

19 MR. TORRES: THE 11TH IS A STATE AND
20 FEDERAL HOLIDAY.

21 MS. BONNEVILLE: IT'S VETERAN'S DAY. SO
22 IT WOULD HAVE TO BE THAT TUESDAY, WEDNESDAY,
23 THURSDAY, OR FRIDAY, THE 12TH, 13TH, 14TH, OR 15TH.
24 WE CAN MAKE WHATEVER WORK ON OUR CALENDAR OBVIOUSLY
25 TO ACCOMMODATE WHATEVER WORKS FOR THE MOST PEOPLE.

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1 DR. STEWARD: CAN I ASK A QUESTION?

2 CHAIRMAN THOMAS: YES, SIR.

3 DR. STEWARD: JEFF, I'M VERY SYMPATHETIC
4 WITH YOUR COMMENTS, AND I ALSO AGREE THAT THERE ARE
5 PARTS OF IT THAT I MIGHT DISAGREE WITH, DO DISAGREE
6 WITH A LITTLE BIT. BUT I'M TRYING TO UNDERSTAND,
7 AND I THINK EVERY MEMBER OF THIS BOARD HAS EXTREMELY
8 VALUABLE VIEWPOINTS BASED ON OUR HISTORY HERE, THAT
9 COULD HAVE INFORMED THE WRITING OF THE NEW
10 INITIATIVE. I'M TRYING TO UNDERSTAND WHAT WE'RE
11 GOING TO DO AT THIS MEETING. OTHER THAN TALK, IS
12 THIS GOING TO BE A FORMAL ACTION BY THE BOARD TO
13 RESPOND IN SOME WAY TO SAY WE LIKE THIS, WE DON'T
14 LIKE THAT, OR IS IT JUST KIND OF DISCUSSION? I'M
15 HAVING TROUBLE CONCEIVING OF THE PURPOSE OF THIS.

16 I'M NOT SAYING IT SHOULDN'T BE DONE, BUT,
17 AGAIN, I JUST DON'T QUITE UNDERSTAND WHERE WE'RE
18 GOING TO END UP AFTER HAVING DONE ALL OF THIS.

19 MR. SHEEHY: JUST MY BIAS. I FEEL VERY
20 UNCOMFORTABLE IN DIRECTING THE WORK OF THE BOARD. I
21 THINK THAT'S THE CHAIR'S JOB. BUT I DO FEEL LIKE WE
22 ARE TALKING ABOUT A STRATEGIC PLAN THAT WILL HAVE
23 ELEMENTS THAT HAVE ALREADY BEEN DECIDED BECAUSE
24 THEY'RE IN THE MEASURE. IF WE THINK THOSE ELEMENTS
25 ARE NECESSARY -- THIS MEASURE IN SOME WAYS, IT'S

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1 PRESCRIPTIVE ON HOW WE CAN SPEND THE MONEY, OR THE
2 BOARD GOING FORWARD. I'M NOT GOING TO BE ON THE
3 BOARD. BUT IF WE THINK THAT SOME OF THESE PIECES
4 THAT ARE IN THE MEASURE ARE NOT WISE, WE SHOULD TAKE
5 A FORMAL VOTE AS A BODY AND SAY IT'S NOT A GOOD
6 IDEA. I DON'T KNOW WHAT CIRM TEAM THINKS ABOUT SOME
7 OF THESE PROGRAMS THAT THEY'RE GOING TO BE TOLD WILL
8 HAVE TO BE PART OF THE NEW MEASURE.

9 GIVE YOU AN EXAMPLE. SHARED LABS IS
10 SOMETHING THAT WE DID AWAY WITH. THAT'S IN THE NEW
11 MEASURE. AND WE HAD A GOOD REASON FOR DOING AWAY
12 WITH IT, SO WHY ARE WE REINSTITUTING THAT? AND
13 THAT'S MONEY.

14 DR. STEWARD: I GUESS WHAT I'M JUST REALLY
15 ASKING IS IS THE OPINION OF THIS BOARD AS A GROUP
16 WITH A MAJORITY VOTE MORE MEANINGFUL THAN THE
17 OPINION OF US AS INDIVIDUALS CONNECTING WITH EITHER
18 BOB OR WHATEVER? I'M JUST NOT SURE THAT ANY ACTION
19 THAT THIS BOARD MIGHT TAKE WOULD HAVE MEANING. WHAT
20 IS OUR STANDING? AGAIN, I DON'T QUITE UNDERSTAND
21 WHAT WE ARE GOING TO DO WITH THIS.

22 MR. SHEEHY: WE DON'T HAVE TO DO IT, BUT I
23 THINK WE SHOULD AT LEAST TALK ABOUT IT, WHICH I
24 HOPE -- I HAVE MY OPINION, AND I FEEL LIKE I'M
25 PRETTY CLEARLY IN THE MINORITY, BUT IT'S REALLY WHAT

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1 YOU BELIEVE YOUR RESPONSIBILITIES AND DUTIES ARE
2 RELATED TO THE ASK FOR ANOTHER \$5.5 BILLION FOR AN
3 AGENCY THAT'S BEEN AROUND FOR 16 YEARS. I'LL BE
4 PERFECTLY BLUNT. I THOUGHT WE SHOULD HAVE GONE TO
5 THE LEGISLATURE AND ACTUALLY BEEN IN CHARGE OF THE
6 NEXT MEASURE, BUT THERE WAS NO SUPPORT FOR ME ON
7 THAT WHEN I SUGGESTED THAT. BECAUSE THE LEGISLATURE
8 COULD HAVE PUT ON A NEW BOND MEASURE FOR US, BUT
9 DIDN'T DO THAT.

10 NOW THAT WE ARE IN THIS POSITION WHERE
11 SOMEONE ELSE IS DOING THIS, THEY PUT FORWARD A
12 MEASURE. IT DIDN'T GO THROUGH A PUBLIC PROCESS. SO
13 HOW THE ELEMENTS IN THAT MEASURE GOT INTO THAT
14 MEASURE I DON'T KNOW. THE RATIONALE FOR THOSE BEING
15 IN THE MEASURE I DON'T KNOW. I LOOK AT WHAT'S IN
16 THE MEASURE AND THE PARTS OF IT THAT I FRANKLY DON'T
17 SEE THE NEED FOR. THERE ARE SOME THINGS THAT I WISH
18 WERE IN THE MEASURE. I'M HAPPY TO REACT AS AN
19 INDIVIDUAL. THE QUESTION TO US AS A BOARD, DO WE
20 FORMALLY WANT TO TAKE A POSITION ON SOME OF THESE
21 ELEMENTS? THAT'S UP TO YOU GUYS.

22 I HAVE A VIEW AS SOMEONE WHO HAS A BELIEF
23 IN CERTAIN GOVERNMENT PROCESSES BEING CONDUCTED IN
24 CERTAIN WAYS. CALIFORNIA ONLY, AND PEOPLE DO TALK
25 ABOUT THESE THINGS AND TAKE POSITIONS, BUT PEOPLE

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1 MAY HAVE DIFFERENT VIEWS. I'M FINE. BUT I DID
2 THINK -- I PROBABLY WOULDN'T HAVE BROUGHT IT UP
3 EXCEPT THAT WE'RE TALKING ABOUT A STRATEGIC PLAN,
4 AND THE STRATEGIC PLAN THAT WE WOULD BE IMPLEMENTING
5 WOULD HAVE ELEMENTS IN IT THAT ARE ALREADY BAKED
6 INTO THE MEASURE. AND WHETHER OR NOT WE THINK
7 THOSE -- I DON'T THINK THAT THOSE ELEMENTS, ALL
8 THOSE ELEMENTS, WOULD HAVE BEEN IN A STRATEGIC PLAN
9 THAT WE DERIVED ON OUR OWN. I DON'T. I DON'T
10 THINK -- AND I USE THE EXAMPLE OF SHARED LABS
11 BECAUSE WE DID THAT PROGRAM, WE ANALYZED IT, WE FELT
12 IT HAD SERVED ITS PURPOSE, AND WE DIDN'T DO IT
13 AGAIN. AND NOW THAT'S IN THE MEASURE. I JUST USE
14 THAT AS AN EXAMPLE.

15 MR. TORRES: MR. CHAIRMAN, IF I MAY, THE
16 PROCESS THAT WE HAVE IN THE CONSTITUTION AND
17 STATUTORY PROVISIONS BASICALLY ALLOW FOR, NO. 1, A
18 PROPONENT TO PUT FORWARD A PROPOSITION. THEN THAT
19 PROPOSITION IS OPINED BY THE LEGISLATIVE ANALYST
20 OFFICE AND THE ATTORNEY GENERAL'S OFFICE. AND
21 DURING THE ATTORNEY GENERAL'S REVIEW, PUBLIC COMMENT
22 IS INVITED DURING A CERTAIN PERIOD OF TIME. ONCE 25
23 PERCENT OF THE SIGNATURES ARE GATHERED, THEN THE LAW
24 REQUIRES BOTH THE ASSEMBLY AND THE SENATE TO CONDUCT
25 HEARINGS ON AN INITIATIVE. THEY CAN'T CHANGE IT OR

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1 AMEND IT, BUT THEY ARE REQUIRED TO HAVE HEARINGS ON
2 THE INITIATIVE, WHICH IS ANOTHER OPPORTUNITY FOR YOU
3 TO TESTIFY IF YOU SO DESIRE TO BEFORE THE ASSEMBLY
4 AND THE SENATE HEARINGS ON THE INITIATIVE. THOSE
5 ARE THE PUBLIC PARAMETERS.

6 WHAT I DON'T WANT TO SEE, BUT MAYBE WE'RE
7 GOING TO END UP DOING THIS, IS TAKING EVERY LINE AND
8 TAKING A VOTE ON EVERY LINE THAT YOU AGREE WITH.
9 WELL, THAT'S GOING TO LAST FOREVER. AND SO MAYBE
10 IT'S BETTER FOR INDIVIDUAL BOARD MEMBERS, IF THEY
11 HAVE CONCERNS, TO SUBMIT THEIR CONCERNS DURING THIS
12 PUBLIC COMMENT PERIOD, NO. 1.

13 AND, NO. 2, I DON'T TAKE SECOND PLACE TO
14 ANYBODY ABOUT WHAT MY DUTY IS AS A MEMBER OF THIS
15 BOARD OR AS A PRIOR PUBLIC SERVANT. I THINK I HAVE
16 FULFILLED MY OATH OF OFFICE AT EVERY LEVEL. SO I'M
17 NOT GOING TO TAKE SECOND PLACE TO ANYBODY WHO SAYS
18 THAT THEY HAVE A SUPERIOR ROLE IN TERMS OF THEIR
19 DUTY TO THIS AGENCY, TO THE PEOPLE OF CALIFORNIA, OR
20 TO THE OFFICE THAT ALL OF US HOLD AS APPOINTED AND
21 ELECTED MEMBERS OF THIS BOARD.

22 MR. SHEEHY: I'M NOT CLAIMING A SUPERIOR
23 ROLE, BUT I'M CLAIMING A SINGLE LINE OF
24 RESPONSIBILITY.

25 DR. PRIETO: I DON'T THINK THE INTENT, I

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1 CERTAINLY WOULDN'T FAVOR ANY KIND OF LINE-BY-LINE
2 REVIEW OF THE INITIATIVE, BUT I THINK IT DOES
3 BEHOOVE US TO LOOK AT IT. AND I THINK IT WOULD HAVE
4 SOMEWHAT MORE IMPACT IF WE, AS A BOARD, SAID, FOR
5 EXAMPLE, THAT WE DID NOT THINK THAT SHARED LABS
6 SHOULD BE MANDATED OR THAT ANOTHER ELEMENT OF THE
7 INITIATIVE OUGHT TO BE PERMISSIVE RATHER THAN
8 EXPLICIT AND DIRECTIVE. I THINK THAT THE IMPACT OF
9 THE BOARD SAYING THAT WOULD BE GREATER THAN THAT OF
10 ONE OF US OR ANY OF US AS INDIVIDUALS DOING SO.

11 DR. MARTIN: I THINK WE CAN DO BOTH AND WE
12 SHOULD DO BOTH. THE BOARD SHOULD HAVE A POSITION
13 THAT WE ALL INDIVIDUALLY HAVE THE OPPORTUNITY TO
14 REINFORCE THAT POSITION OR OPPOSE IT.

15 DR. BLUMENTHAL: SO I AM OF MIXED MINDS ON
16 THIS. I DO HAVE SOME CONCERNS. I ACTUALLY HAVE A
17 LOT OF SYMPATHY WITH THE POSITION MR. SHEEHY HAS
18 POINTED OUT, THAT AS A PUBLIC AGENCY THAT HAS
19 EXPERIENCE, WE COULD HAVE SIGNIFICANT INPUT AND
20 MEANINGFUL KNOWLEDGE OF THE INPUT ON THE NATURE OF
21 AN INITIATIVE. BUT I HAVE A POLITICAL CONCERN,
22 WHICH IS IF WE WERE TO TAKE A POSITION THAT ITEM NO.
23 1 OR ITEM NO. 3 IN THE INITIATIVE WAS NOT A GOOD
24 IDEA, AND IF THAT ITEM NO. 1 OR ITEM NO. 3 REMAINED
25 IN THE INITIATIVE, THEN THAT WOULD BE USABLE BY

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1 OPPONENTS AT THE END OF THE DAY TO SAY EVEN CIRM
2 DIDN'T LIKE THOSE ITEMS. I COULD SEE THAT FINDING
3 ITS WAY INTO AN OPPONENT'S ARGUMENT AGAINST THE
4 INITIATIVE, AND THAT GIVES ME GREAT CONCERN. I SAY
5 THAT EVEN THOUGH I ACTUALLY DO SYMPATHIZE WITH THIS
6 POSITION.

7 MR. SHEEHY: I THINK YOUR POINT JUST
8 EMPHASIZES THE WEIGHT OF OUR OPINION IF WE CHOSE TO
9 USE THAT WEIGHT. YOU'RE BASICALLY KIND OF IN SOME
10 WAY AGREEING WITH ME. IF WE AS A BODY THOUGHT THAT
11 SOMETHING WAS NOT GOOD, I THINK THE PROPONENT WOULD
12 FEEL A CERTAIN WEIGHT TO TAKE THAT SERIOUSLY BECAUSE
13 OF THE VERY REASON YOU JUST ELUCIDATED.

14 DR. SANDMEYER: I'M RELATIVELY NEW ON THE
15 BOARD, BUT I GUESS I THINK WE ARE TRYING TO DECIDE
16 IF WE'RE GOING TO ALL AGREE OR DISAGREE BEFORE WE
17 EVEN HAVE THE DISCUSSION. SO I STILL BELIEVE THAT
18 TO US AS INDIVIDUALS, SPEAKING FOR MYSELF, IT WOULD
19 BE USEFUL TO HEAR A DISCUSSION OF THE PROPOSAL. AND
20 MAYBE THEN IN THE CONTEXT OF THAT DISCUSSION, WE
21 DECIDE IF THERE ARE THINGS THAT WE WOULD TAKE A
22 UNANIMOUS POSITION ON OR NOT OR IF WE CHOOSE TO GO
23 FORWARD INDIVIDUALLY.

24 CHAIRMAN THOMAS: MY TAKE IS, AS I SAID, A
25 LIMITED NUMBER OF US HAVE HAD THE OPPORTUNITY TO

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1 TALK TO BOB, VERY LIMITED. GOING AROUND THE ROOM,
2 I'M SURE IT'S LESS THAN A HANDFUL, AND THAT'S NOT
3 GOOD. SO I DO THINK A DISCUSSION THAT ALLOWS
4 MEMBERS OF THE BOARD TO VOICE THEIR OPINIONS ON THE
5 NEW ELEMENTS, HOWEVER WE CONSTRUCT THAT DISCUSSION,
6 OF THE INITIATIVE AS DRAFTED IS A WAY TO GET
7 EVERYBODY ON THE BOARD'S INPUT TO BOB. AND AT THE
8 END OF THE DAY, IT IS BOB'S HUNDRED PERCENT
9 DISCRETION. BUT THAT WAY AT LEAST ALL OF US WHO
10 WOULD LIKE TO HAVE THAT CONVERSATION HAVE THE
11 OPPORTUNITY TO MAKE THEIR VIEWS KNOWN.

12 SO, AGAIN, I WOULD BE IN FAVOR OF US
13 CALENDARING A MEETING, HAVING THIS DISCUSSION. I DO
14 THINK DR. BLUMENTHAL'S COMMENTS WE HAVE TO PAY
15 ATTENTION TO. THE LAST THING YOU WANT IS FOR IT TO
16 SOUND LIKE WE ARE TAKING A POSITION ONE WAY OR
17 ANOTHER. GOT TO BE CAREFUL HERE, JAMES. I DON'T
18 WANT TO SAY SOMETHING THAT IS OUT OF TURN HERE.
19 ANYWAY. SO UNLESS THERE'S A VEHEMENT OBJECTION, I
20 THINK WE SHOULD TRY TO GET A CONSENSUS ON A DATE
21 HERE WHERE WE CAN HAVE THIS DISCUSSION AND THEN
22 PROCEED.

23 DR. STEWARD: AGAIN, I JUST WOULD REALLY
24 LIKE TO KNOW WHAT IT IS WE'RE GOING TO HAVE AT THE
25 END OF THIS MEETING. AND I'M NOT NECESSARILY ASKING

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1 FOR AN ANSWER RIGHT NOW, BUT I THINK IT WOULD BE
2 IMPORTANT BEFORE WE GO INTO THAT MEETING TO KNOW ARE
3 WE TALKING ABOUT A SET OF RECOMMENDATIONS THAT HAVE
4 A VOTE ATTACHED TO THEM OR A SET OF OPINIONS? I
5 JUST WOULD --

6 CHAIRMAN THOMAS: TO ME, I DON'T KNOW IF
7 WE'RE GOING TO BE ABLE TO HAVE A CONSENSUAL SET OF
8 RECOMMENDATIONS. I THINK THE POINT OF THIS
9 DISCUSSION IS TO GET A SENSE OF THE BOARD WITH
10 RESPECT TO THEIR TAKES ON VARIOUS ISSUES THAT CAN BE
11 CONVEYED TO BOB. IT DOES NOT HAVE TO BE, IN MY
12 OPINION, SOMETHING THAT GETS VOTED ON. IT'S A SORT
13 OF SENSE OF WHAT WE THINK WOULD BE HELPFUL FOR HIM
14 TO UNDERSTAND OUR PERSPECTIVE ON.

15 MR. TORRES: I DON'T AGREE WITH IT. IF
16 YOU'RE GOING TO TAKE THE TIME TO GO SECTION BY
17 SECTION, YOU SHOULD TAKE A VOTE ON WHETHER YOU
18 SUPPORT THAT SECTION OR NOT.

19 THEN THE OTHER QUESTION IS AT SOME POINT
20 WHEN WE TAKE THE ISSUE BEFORE THE FULL BOARD FOR
21 ENDORSEMENT OR NOT, DOES THAT MEAN WE WON'T ENDORSE
22 THE INITIATIVE BECAUSE WE MAY HAVE VOTED AGAINST
23 CERTAIN PROVISIONS IN THE INITIATIVE AT A PRIOR
24 MEETING? THAT'S THE DIFFICULTY I'M HAVING.

25 CHAIRMAN THOMAS: I TOTALLY GET THAT LAST

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1 POINT. I DON'T KNOW WHAT THE VALUE IS, WITH ALL DUE
2 RESPECT, IF WE'RE CONSIDERING SOME PROVISION AND IT
3 TURNS OUT THAT IT'S LIKE SIX/FOUR VOTE, I DON'T KNOW
4 WHAT THAT MEANS TO BOB.

5 MR. TORRES: OR TO THE PUBLIC.

6 CHAIRMAN THOMAS: OR TO THE PUBLIC. SO I
7 DON'T KNOW THAT VOTING ON THESE THINGS. IT'S JUST
8 IT'S AN AIRING OF THE ISSUES AND GETTING TO BOB A
9 SENSE OF WHAT THE BOARD THINKS. MR. SHEEHY, WOULD
10 YOU RESPOND TO THAT PLEASE?

11 MR. SHEEHY: I THINK WE SHOULD TAKE A VOTE
12 ON THINGS AND EXPRESS A DEFINITIVE OPINION OR NOT DO
13 IT AT ALL. JUST TO DISCUSS THIS IS A WASTE OF
14 EVERYBODY'S TIME. AND I'M FINE IF WE DON'T DO IT.
15 I JUST PUT IT OUT THERE. BUT IF WE'RE GOING TO DO
16 IT, WE SHOULD LOOK AT THE SPECIFIC ELEMENTS AND TAKE
17 A VOTE IF WE THINK IT'S A GOOD IDEA OR BAD IDEA.
18 AGAIN, WE DON'T HAVE TO DO IT. I JUST THOUGHT I'D
19 RAISE THE ISSUE.

20 THIS IS NEW TO ME. THIS IS A STATE AGENCY
21 THAT'S EXISTED FOR 16 YEARS. I DON'T KNOW OF
22 ANOTHER SINGLE AGENCY THAT'S PUT THEIR WHOLE FATE IN
23 THE HANDS OF AN EXTERNAL ACTOR -- I'M NOT SAYING
24 ANYTHING MALIGNED ABOUT THE EXTERNAL ACTOR -- BUT A
25 HUNDRED PERCENT, A HUNDRED PERCENT FOR POLICY

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1 CHANGES AND GOVERNANCE CHANGES TO AN EXISTING STATE
2 AGENCY, AND THE BOARD OF DIRECTORS HAS NO OPINION.
3 SO THAT -- BUT IT'S FINE IF WE DON'T. THAT'S KIND
4 OF THE DECISION THAT FEELS LIKE HAS ALREADY BEEN
5 MADE. WHERE I DON'T KNOW. I APOLOGIZE FOR ASKING
6 THE QUESTION, BUT YOU KNOW.

7 CHAIRMAN THOMAS: MR. JUELSGAARD.

8 MR. JUELSGAARD: LET ME JUST DISAGREE WITH
9 YOU, JEFF. THE PURPOSE, AND I'M GOING TO REITERATE
10 WHAT WAS JUST SAID A MOMENT AGO, THE PURPOSE OF THE
11 MEETING IS FOR ALL OF US TO BETTER UNDERSTAND WHAT
12 THESE NEW PROPOSALS ARE WITHIN THE INITIATIVE AND
13 WHAT THEY MEAN. AND THERE MAY BE DIFFERING POINTS
14 OF VIEW THAT ACTUALLY MIGHT HELP INFORM ME OF A
15 DIFFERENT OPINION THAN THE ONE I HAVE NOW ABOUT SOME
16 OF THEM BECAUSE SOME EXPERTISE THAT I DON'T HAVE
17 OTHER PEOPLE IN THIS ROOM MIGHT HAVE. AND SO I
18 THINK IF WE GET TOGETHER AND DISCUSS THIS AND HAVE A
19 GENERAL SENSE OF WHAT THIS MEANS AND WHAT IMPACT IT
20 HAS WITH CIRM WOULD CERTAINLY HELP ME. IF WE DON'T
21 AT THE END OF THE DAY COME TOGETHER COLLECTIVELY AND
22 SEND SOMETHING TO BOB, SO BE IT. AT LEAST I'LL HAVE
23 THE OPPORTUNITY TO SEND SOMETHING TO BOB. HE MAY
24 CHOOSE TO IGNORE IT; HE MAY NOT CHOOSE TO IGNORE IT.
25 AT LEAST I'LL BE ABLE TO EXPRESS MY VIEWS TO HIM

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1 AFTER SUCH A MEETING EVEN IF WE DON'T DO IT
2 COLLECTIVELY AS A BOARD. THAT'S WHAT I WOULD HOPE
3 TO GET OUT OF THAT.

4 CHAIRMAN THOMAS: I WOULD AGREE WITH THAT.

5 DR. MARTIN: HERE. HERE.

6 MS. BONNEVILLE: HOW DOES NOVEMBER 13TH
7 WORK FOR EVERYONE? LET'S JUST THROW OUT A DATE.
8 I'M JUST GOING TO THROW ONE OUT THERE. WE GOT TO
9 START SOMEWHERE. IS ANY DATE, THE 12TH, 13TH, 14TH,
10 OR 15TH, SOMETHING THAT MOST PEOPLE COULD DO?

11 MR. JUELSGAARD: WHY DON'T YOU JUST START
12 WITH THE FIRST DATE.

13 MS. BONNEVILLE: THE 12TH IF YOU CANNOT
14 MAKE IT.

15 DR. SANDMEYER: AT ANY TIME?

16 MS. BONNEVILLE: IT COULD BE TELEPHONIC.
17 NOT EVERYBODY HAS TO SHOW UP IN ONE PLACE, ALTHOUGH
18 IF YOU'D LIKE TO COME, WE'D LOVE TO HAVE YOU. TWO
19 HOURS? THREE HOURS? TWO HOURS. MORNING OF THE
20 12TH, HANDS THAT CANNOT DO IT?

21 DR. VUORI: COULD WE DO A DOODLE POLL? IT
22 COULD BE ONLINE IN REAL TIME THERE.

23 MS. BONNEVILLE: I AGREE. IF EVERYONE
24 WILL COMMIT TO FILLING OUT THE DOODLE POLL TODAY
25 WHEN I SEND IT OUT, THAT'D BE FANTASTIC BECAUSE I

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1 WILL HAVE TO POST --

2 MR. JUELSGAARD: JUST GO WITH WHOEVER
3 RESPONDS AND WHAT WORKS BEST.

4 MS. BONNEVILLE: IF WE DON'T HAVE A QUORUM
5 TO VOTE, JUST EVERYONE WILL HAVE TO UNDERSTAND.

6 DR. PRIETO: HAVE TO HAVE A QUORUM TO TAKE
7 ACTION.

8 MS. BONNEVILLE: THAT'S FINE. I JUST
9 WANTED TO MAKE SURE EVERYONE IS OKAY WITH THAT
10 BECAUSE THERE HAVE BEEN DIFFERENT OPINIONS ON IT SO
11 I WANT TO CLEAR IT.

12 MR. TORRES: WE'RE NOT REQUIRING A QUORUM?

13 MR. JUELSGAARD: NO QUORUM, NO VOTE.

14 MR. TORRES: NO QUORUM, JUST A DISCUSSION.

15 CHAIRMAN THOMAS: MR. JUELSGAARD, I
16 UNDERSTOOD THAT YOU WERE NOT IN FAVOR OF A VOTE.

17 MR. JUELSGAARD: I'M NOT SAYING THAT AT
18 ALL. I'M JUST SAYING AT THE VERY LEAST, THE ROCK
19 BOTTOM IS THAT WE GET -- I DISAGREED.

20 MR. ROWLETT: J.T., THOSE OF US ON THE
21 PHONE ARE NOT ABLE TO PICK UP MR. JUELSGAARD'S
22 COMMENTS.

23 MR. JUELSGAARD: I'LL JUST REPEAT IT. SO
24 JEFF INDICATED THAT THE ONLY PURPOSE TO HAVE THIS
25 MEETING WAS TO HAVE A VOTE. WHILE I'M HAPPY IF WE

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1 CAN HAVE A VOTE, I'M ALSO HAPPY IF WE CAN'T BECAUSE
2 AT LEAST WE'LL ALL BE BETTER INFORMED, AND THOSE OF
3 THAT WANT TO CAN INDIVIDUALLY WRITE TO THE AUTHOR OF
4 THE INITIATIVE WITH WHATEVER CONCERNS WE HAVE WITH
5 THE CURRENT LANGUAGE OF THE INITIATIVE. SO FOR ME
6 EITHER OUTCOME IS A WIN.

7 MR. ROWLETT: ELOQUENTLY STATED AND
8 AGREED.

9 MS. BONNEVILLE: GREAT. WE'LL SEND A
10 DOODLE POLL OUT SHORTLY. BE ON THE LOOKOUT.

11 MR. TORRES: AND RESPOND.

12 CHAIRMAN THOMAS: MARIA, ARE YOU
13 SUGGESTING THIS MIGHT BE IN PERSON? I WOULD SAY
14 THAT TELEPHONIC IS BEST.

15 MS. BONNEVILLE: THAT'S WHAT I SAID,
16 TELEPHONIC. BUT IF ANYBODY WANTED TO COME UP, WE'D
17 LOVE TO HAVE THEM. WE'LL EVEN GET A GOOD LUNCH.
18 BRAIN HEALTHY, LAUREN.

19 MR. TORRES: LAUREN WILL DECIDE THE MENU.

20 MS. MILLER: SALMON.

21 CHAIRMAN THOMAS: SALMON, KALE SALAD.

22 ARE WE THROUGH THAT -- ANY OTHER COMMENTS
23 ON THAT? HEARING NONE, THAT CONCLUDES THE CHAIR'S
24 REPORT. DR. MILLAN, CAN YOU PLEASE PROCEED TO THE
25 PRESIDENT'S REPORT.

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1 DR. MILLAN: THANK YOU VERY MUCH, MEMBERS
2 OF THE BOARD, COLLEAGUES, AND THE PUBLIC. THIS WILL
3 BE A VERY SHORT PRESIDENT'S REPORT. SENATOR TORRES
4 IS CLAPPING.

5 SO IT WILL BE SHORT. AND JUST TO LET YOU
6 KNOW, WHAT WE'VE LAUNCHED IS WHAT YOU SEE HERE, A
7 CIRM BOARD NEWSLETTER, WHICH WILL ALSO BE POSTED
8 PUBLICLY SO OTHERS CAN ACCESS IT. IT WILL GIVE
9 UPDATES ON OUR PROJECTS, OUR CLINICAL TRIALS. AND I
10 THINK YOU WILL FIND IT TO BE VERY INFORMATIVE. AND
11 BECAUSE WE'RE HAVING FEWER IN-PERSON MEETINGS AND
12 OPPORTUNITIES TO GIVE YOU AN UPDATE, WE HOPE YOU'LL
13 BE ABLE TO USE THAT AND ALSO CONTACT US IF YOU HAVE
14 ANY QUESTIONS. THAT SHOULD BE IN YOUR INBOX SOON.

15 AND I SAID I WOULD MAKE THIS VERY SHORT,
16 BUT I DID WANT TO GIVE AN UPDATE ON OUR CURRENT
17 STRATEGIC PLAN, WHICH, AS YOU KNOW, GOES TILL 2020.
18 AND WE CONTINUE TO MAKE GREAT PROGRESS AS LONG AS
19 THE FUNDING ALLOWS. WE HAD A TARGET OF 50 NEW
20 CANDIDATES THAT COME IN THROUGH EITHER TRAN OR
21 CLINICAL 1, AND TODAY WE JUST INCREASED THAT TO 41.
22 WE MAY BE CONSTRAINED IN TERMS OF HOW MANY OTHER
23 ADDITIONAL NEW CANDIDATES CAN COME IN. WE HAVE
24 CONTINUED TO MAKE PROGRESS ON PROGRESSION OF
25 PROGRAMS GOING FROM FIRST STAGE TO THE NEXT. SO IN

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1 SOME WAYS WE ARE MAKING UP FOR THE FINANCIAL
2 CONSTRAINTS AND BRINGING IN NEW CANDIDATES BY HAVING
3 THE CANDIDATES PROGRESS THROUGH FROM THE DIFFERENT
4 STAGES OF RESEARCH THROUGH TRANSLATION AND TO
5 CLINICAL TRIALS.

6 WE HAVE CONTINUED TO SHAPE AND PARTNER
7 WITH THE FDA IN TERMS OF THE REGULATORY PARADIGM.
8 WE HAVE SIX OF OUR PROGRAMS THAT HAVE THE EXPEDITED
9 PATHWAY DESIGNATION CREATED BY THE 21ST CENTURY
10 CURES ACT CALLED THE RMAT DESIGNATION. AND IT'S
11 QUITE REMARKABLE. I THINK THERE ARE 30 SOMETHING
12 EVEN TODAY. SO WE HAVE A SIGNIFICANT PROPORTION OF
13 THOSE, AND THERE ARE SEVERAL OF OUR PROGRAMS THAT
14 ARE RIGHT NOW IN THE MIDST OF HAVING OR PLANNING FOR
15 OR ARE IN THE MIDST OF DISCUSSING THIS WITH THE FDA.

16 SO THAT, AGAIN, IS A VERY IMPORTANT POLICY
17 IMPLEMENTATION THAT HELPS OUR PROGRAMS ACCELERATE
18 DOWN THE ROAD.

19 IN TERMS OF OPERATIONALLY, MR. SHEEHY HAD
20 MENTIONED THAT OUR STRATEGIC PLAN IS VERY
21 OPERATIONALLY FOCUSED. IT'S REALLY BEEN AN AMAZING
22 ENGINE FOR US TO BE ABLE TO DO THINGS SUCH AS
23 SHORTEN DEVELOPMENT TIME. SO WE HAVE HAD FOUR
24 PROGRAMS THAT WERE ABLE TO OBTAIN THEIR IND WITHIN
25 18 MONTHS. THAT'S QUITE REMARKABLE. AND WE STILL

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1 HAVE OTHER PROGRAMS UNDER WAY. OF COURSE, THAT
2 DOESN'T MEAN THAT ALL PROGRAMS ARE ABLE TO DO THAT,
3 BUT IT'S A GREAT ADVANCE FORWARD.

4 WE'VE INCREASED OUR CLINICAL PROTOCOL. SO
5 WITH TODAY'S APPROVAL, THE FOUR CLIN² PROJECTS, WE
6 ARE NOW AT 43 OF THE TARGETED 50 NEW CLINICAL
7 TRIALS. SO THAT'S REALLY REMARKABLE. WE HAVE SOME
8 OTHER CANDIDATES COMING IN UNDER THE SICKLE CELL
9 PROGRAM. AND IN TERMS OF PARTNERSHIPS, AS HAS BEEN
10 MENTIONED AT PREVIOUS MEETINGS, WE ARE CONTINUING TO
11 SEE INCREASED INTEREST IN INDUSTRY PULL. THIS YEAR
12 ALONE WE'RE CLOSE TO A BILLION DOLLARS IN
13 PARTNERSHIP AND VALUE PARTNERSHIP DEALS FOR OUR
14 PROGRAMS. SO THAT BRINGS US UP TO ABOUT 2.2 OR 2.5
15 BILLION IN INDUSTRY PARTNERSHIPS.

16 SO ONE OF THE THINGS THAT WE ALSO DO, AND
17 CHAIRMAN THOMAS HAS MENTIONED THIS, IS MAKE SURE
18 THAT WE REALLY ARE, AS AN AGENCY, CONNECTED WITH THE
19 REST OF KIND OF THE BROADER ECOSYSTEM. AND WE ARE
20 VERY INVOLVED AT THE COMMUNITY LEVEL AS WELL AS WITH
21 MAJOR THINK TANKS AND OPPORTUNITIES TO CONVENE KEY
22 EXPERTISE.

23 I HAD THE OPPORTUNITY OF BEING INVITED AS
24 THE INAUGURAL SPEAKER AT THE UC IRVINE DEANS LECTURE
25 JUST IN SEPTEMBER, ON SEPTEMBER 11TH. AND WHAT WAS

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1 REALLY REMARKABLE, THERE WERE SEVERAL COMPONENTS OF
2 THIS, BUT REALLY ONE REMARKABLE COMPONENT WAS THE
3 COMMUNITY LECTURE THAT OCCURRED THE NIGHT BEFORE THE
4 SCIENTIFIC LECTURE. AND THERE WAS HUGE ENGAGEMENT
5 FROM THE ORANGE COUNTY CITIZENS WHO HAD COME IN.
6 AND FROM THAT, IT WAS VERY CLEAR THAT THEY VERY MUCH
7 VALUED AND NEED EVEN MORE ACCESS TO DATA AND
8 KNOWLEDGE AS WE CONTINUE WITH THIS FIELD.

9 SO I APPLAUD UC IRVINE BECAUSE THIS IS A
10 REGULAR THING FOR THEM TO HAVE THESE COMMUNITY
11 LECTURESHIPS EVEN INDEPENDENT OF THIS SPECIAL DEANS
12 LECTURE.

13 WE WERE ASKED TO TESTIFY OR GIVE SOME
14 INPUT TO THE MEDICAL BOARD OF CALIFORNIA ON
15 SEPTEMBER 18, 2019. WANTED TO THANK SENATOR TORRES,
16 GEOFF LOMAX, MARIA BONNEVILLE FOR THEIR HELP IN
17 THIS. THE ISSUE AT HAND IS THE CRISIS WE HAVE OF
18 STEM CELL TOURISM OR DIRECT-TO-CONSUMER ACTIVITIES
19 THAT ARE OCCURRING AT THE SAME TIME THAT WE'RE
20 MAKING AMAZING PROGRESS WITH LEGITIMATE, REGULATED
21 SCIENCE.

22 AND SO THE FEDERATION OF MEDICAL BOARDS
23 ARE REALLY TRYING TO FIGURE OUT HOW, WITHIN THEIR
24 PURVIEW, THEY CAN ADJUST TO THIS WORLD WE ARE IN
25 TODAY WHERE THERE'S PROGRESS IN REGENERATIVE

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1 MEDICINE, BUT ALL THAT IS OCCURRING.

2 SO WE WERE ABLE TO SHARE THE STANDARDS,
3 THE QUALITY, AND HOW WE'RE ABLE TO ENSURE THAT THE
4 PROGRAMS THAT WE FUND AND SUPPORT MEET THAT QUALITY
5 AND HOW WE PARTNER WITH THE FDA IN TERMS OF THE
6 CLINICAL PROGRAMS.

7 ANOTHER LARGE INDUSTRY MEETING THAT
8 OCCURRED WAS FORMERLY CALLED THE STEM CELL MEETING
9 ON THE MESA. THEY SINCE MOVED IT TO CARLSBAD. I
10 THINK THERE WERE 2,000 ATTENDEES IN OCTOBER 2019.
11 IT IS SPONSORED BY ALLIANCE FOR REGENERATIVE
12 MEDICINE OF WHICH CIRM IS A MEMBER. AND IT'S QUITE
13 INCREDIBLE THE HUGE PROGRESS AND THE NUMBER AND THE
14 GROWING PORTFOLIOS OF THESE INDUSTRY PARTNERS IN THE
15 FIELD.

16 AND WHEN I SPEAK WITH THEM, I ALWAYS KIND
17 OF ASK, "OKAY, WHERE DOES AN AGENCY LIKE CIRM FIT
18 IN?" AND STILL IN THIS AREA OF EARLY DERISKING. SO
19 WE STILL KIND OF FIT INTO THAT VALUE PROPOSITION IN
20 TERMS OF THE ENTIRE ECOSYSTEM.

21 ONE OF THE MAJOR TOPICS, AS ALLUDED TO
22 EARLIER, VERY HEALTHY DISCUSSION, WAS ABOUT
23 AFFORDABILITY, ACCESS, AND REIMBURSEMENT, MAJOR
24 TOPIC FOR EVERYBODY. AND THERE ARE EFFORTS, BUT
25 IT'S GOING TO REQUIRE MULTISTAKEHOLDER EFFORT

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1 INCLUDING WITH AGENCIES SUCH AS CIRM.

2 I RECENTLY ATTENDED THE NATIONAL ACADEMY
3 OF MEDICINE ANNUAL MEETING WHERE VICTOR ZHAU
4 LAUNCHED A HUMAN LONGEVITY GRAND CHALLENGE AS PART
5 OF THEIR STRATEGY, WHICH IS A \$100 MILLION
6 INITIATIVE TO CATALYZE INNOVATION AND INFORM
7 POLICIES TO ADVANCE HEALTHY AGING AND LONGEVITY AS
8 IT RELATES TO THE SCIENCE, THE TECHNOLOGY, AND THE
9 POLICY, AND THE SOCIAL ASPECTS OF THAT.

10 AND WE, AS AN AGENCY, ARE VERY INVOLVED IN
11 WHAT'S CALLED THE FORUM FOR REGENERATIVE MEDICINE,
12 WHICH IS WHERE THE NATIONAL ACADEMIES CONVENE
13 MULTIPLE STAKEHOLDERS AND LEADERS FROM ACADEMIA,
14 INDUSTRY, GOVERNMENT, PATIENT AND PROVIDER
15 ORGANIZATIONS, REGULATORS, FOUNDATIONS, AND OTHERS
16 TO DISCUSS THE ISSUES OF REGENERATIVE MEDICINE, KIND
17 OF THE CHALLENGES AND OPPORTUNITIES, THE
18 CROSSCUTTING CONCERNS IN A NEUTRAL ENVIRONMENT. AND
19 CERTAIN, THE GOAL IS TO IDENTIFY THE POTENTIAL
20 BARRIERS TO THIS SAFELY BEING DELIVERED TO PATIENTS.

21 AND ONE OF THE KEY THEMES THAT WAS
22 RECURRENT IN ALL THESE DIFFERENT MEETINGS WAS THE
23 IMPORTANCE OF DATA AND KNOWLEDGE SHARING. SO OFTEN
24 MR. SHEEHY REFERRED TO THIS QUOTE FROM ONE OF OUR
25 ADVISORS THAT SAID THAT DATA IS THE NEW OIL. AND

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1 THAT'S CERTAINLY THE SENTIMENT AND SOMETHING THAT I
2 THINK MULTIPLE STAKEHOLDERS ACROSS INDUSTRY,
3 ACADEMIA, POLICY FEEL THAT THIS IS, WHEN WE ARE
4 TALKING ABOUT BRINGING THESE NOVEL THERAPIES,
5 BRINGING THESE INITIALLY, AT LEAST, EXPENSIVE
6 THERAPIES, BUT LIFE-CHANGING THERAPIES FORWARD, THAT
7 THIS BE INFORMED BY THE BEST INFRASTRUCTURE IN ORDER
8 TO BE ABLE TO DO THIS.

9 DR. KEITH YAMAMOTO, WHO IS ON OUR BOARD,
10 IS HEAD OF A COMMITTEE WITHIN THE NATIONAL ACADEMIES
11 TARGETING HOW DO WE GET THIS OPEN SCIENCE AND DATA
12 SHARING TO THE PLACE WHERE WE CAN ADVANCE SCIENCE
13 MORE RESPONSIBLY AND ACCELERATE THE PROGRESS.

14 AND THEN, FINALLY, JUST YESTERDAY WE WERE,
15 SOME MEMBERS HERE INCLUDING CHAIRMAN THOMAS AND I,
16 WERE AT THE WORLD ALLIANCE FORUM. WE WERE ABLE TO
17 GIVE AN UPDATE ON CIRM AT THAT FORUM. IT IS, AGAIN,
18 THE IDEA OF TECHNOLOGY AND DATA AND KNOWLEDGE
19 SHARING AND COLLABORATION IS SOMETHING THAT WAS
20 EMPHASIZED THERE AS WELL.

21 SO WITH THAT, I JUST WANTED TO JUST REFER
22 BACK TO SOME OF THE CONVERSATIONS THIS BOARD HAD
23 ABOUT WHAT KIND OF PROCESSES WE GO THROUGH IN TERMS
24 OF EVALUATING WHERE CIRM IS IN PREPARATION FOR A
25 FUTURE STRATEGIC PLANNING EXERCISE. SO WHAT WE CAN

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1 DO IS ACTUALLY, AS MR. SHEEHY HAD MENTIONED, TAKE A
2 LOOK BACK AT WHAT HAS OUR EXPERIENCE BEEN? WHAT
3 HAVE WE LEARNED? WHAT IS THE INPUT FROM OUR
4 ECOSYSTEM WHICH WE HAVE BUILT AND HAVE BEEN WORKING
5 IN FOR THE PAST 16 YEARS?

6 AND PART OF THIS, AS AN EXAMPLE OF THIS,
7 DR. GIL SAMBRANO AND HIS TEAM, AT THE ADVICE OF JEFF
8 SHEEHY AND OS STEWARD, HAD ASSEMBLED OUR GWG
9 RECENTLY TO GAIN THAT KIND OF INPUT. AND IF THERE
10 AREN'T ANY QUESTIONS ON MY KIND OF UPDATE, I'D LIKE
11 TO INTRODUCE GIL SAMBRANO, WHO CAN GIVE A SUMMARY OF
12 WHAT THAT WORKSHOP LOOKED LIKE. THANK YOU. THERE
13 ARE NO QUESTIONS.

14 DR. SAMBRANO: THANK YOU VERY MUCH, MARIA.
15 AND SO I DON'T WANT TO TAKE TOO MUCH OF YOUR TIME,
16 BUT I THINK IT IS IMPORTANT TO SHARE THE OUTCOMES OF
17 THIS MEETING. I THINK IT WAS REALLY PRODUCTIVE, THE
18 ONE THAT WE HAD. AND SO WE REACHED OUT TO, AS YOU
19 MIGHT IMAGINE, TO OUR GRANTS WORKING GROUP FOR
20 SEVERAL REASONS, WHICH I'LL TELL YOU.

21 HERE'S JUST AN OVERVIEW OF THE MEETING
22 THAT HAPPENED ON SEPTEMBER 26TH. WE HAD 28
23 SCIENTIFIC MEMBERS IN ATTENDANCE. SO THESE WERE
24 CURRENT AND SOME FORMER MEMBERS, SIX OF OUR PATIENT
25 ADVOCATE MEMBERS WHO SERVE ON THE GRANTS WORKING

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1 GROUP, AND FOUR MEMBERS OF THE PUBIC, AS WELL AS OUR
2 BOARD CHAIR AND, OF COURSE, THE CIRM TEAM.

3 WE SOUGHT THE FEEDBACK OF THE GRANTS
4 WORKING GROUP BECAUSE THEY'RE A GROUP THAT IS
5 ACTUALLY VERY CLOSE TO US FOR GOOD REASON. AS YOU
6 ARE AWARE, THEY HAVE A CENTRAL ROLE IN HELPING US
7 SELECT THE MOST SCIENTIFICALLY MERITORIOUS STEM CELL
8 PROJECTS TO FUND. THEY'RE OUR GATEKEEPERS FOR
9 QUALITY AND MISSION ALIGNMENT.

10 SO IN THE COURSE OF 14 YEARS IN WHICH THEY
11 HAVE BEEN ACTIVE, THIS GROUP HAS CONDUCTED 117
12 REVIEW MEETINGS WITH OVER 3,000 APPLICATIONS
13 REVIEWED, WHICH MEANS THAT'S A PACE OF OVER 200
14 APPLICATIONS PER YEAR. AND THOSE HAVE RESULTED IN
15 OVER 750 FAVORABLE RECOMMENDATIONS THAT HAVE COME TO
16 THIS BODY.

17 SO IT'S AN INCREDIBLE BODY OF WORK FOR
18 THIS GROUP. AND SO PART OF THE REASON IS TO GET
19 THEIR PERSPECTIVE HAVING BEEN SO CLOSE TO US AND
20 CONTINUING TO BE CLOSE TO US IN THIS WAY. AND ALSO
21 EVEN JUST TO EXPRESS OUR THANKS TO THEM FOR MAKING
22 THIS CONTRIBUTION.

23 SO IN ORDER TO PREPARE FOR THIS MEETING,
24 AND I'LL DESCRIBE KIND OF WHAT THE FORMAT BEHIND IT
25 WAS, WE PROVIDED MEMBERS A COMPREHENSIVE SET OF

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1 BACKGROUND INFORMATION ABOUT CIRM PROGRAMS. SO
2 STARTING FROM OUR VERY FIRST RFA ON TRAINING
3 PROGRAMS, WHICH WAS ISSUED IN 2005, TO OUR MOST
4 RECENT OPPORTUNITIES THAT ARE FOCUSED ON THERAPY
5 DEVELOPMENT IN OUR PIPELINE, SO OUR GOAL WAS TO GIVE
6 THEM CONTEXT FOR THEM TO HAVE A MEANINGFUL
7 DISCUSSION AND ALSO TO PROVIDE DIFFERENT WAYS IN
8 WHICH THEY CAN LOOK AT WHAT CIRM HAS ACCOMPLISHED.

9 JUST TO GIVE YOU ONE EXAMPLE, WE TOOK SOME
10 OF THE DATA AND INFORMATION WE HAVE AND PUT IT IN
11 GRAPHS SUCH AS THIS. AND SO, AS YOU KNOW, WE TEND
12 TO DIVIDE OUR FUNDING INVESTMENTS INTO FIVE
13 DIFFERENT PILLARS OF DISCOVERY, TRANSLATION,
14 CLINICAL, INFRASTRUCTURE, AND EDUCATION. JUST
15 ARRANGING IT IN THIS MANNER WHERE WE KIND OF
16 SEPARATED EARLY PROGRAMS VERSUS THE MOST RECENT, YOU
17 CAN SEE THAT OVER A THIRD OF OUR INVESTMENT HAS BEEN
18 TO REALLY EARLY STAGE WORK IN THE DISCOVERY PILLAR,
19 INCLUDING FUNDAMENTAL KNOWLEDGE BUILDING STUDIES AS
20 WELL AS MORE RECENTLY CANDIDATE DISCOVERY RESEARCH.
21 AND THE GREATEST CONTRIBUTION HAPPENED VERY EARLY
22 BEFORE 2015 IN PART BECAUSE THE FIELD WAS RELATIVELY
23 NEW AND THERE WAS A LOT OF EFFORT TO GET THINGS
24 GOING.

25 THE NEXT GREATEST CONTRIBUTION HAS BEEN TO

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1 THE CLINICAL PILLAR. AND OVER A QUARTER OF THE
2 INVESTMENT, MOST OF THAT HAS COME IN RECENT YEARS AS
3 THE FIELD HAS GROWN AND WE ACTUALLY HAVE THINGS THAT
4 ARE SUFFICIENTLY ADVANCED TO MAKE IT INTO THE
5 CLINIC.

6 AND THEN IN THE INFRASTRUCTURE CATEGORY, A
7 LOT OF THAT OCCURRED, AGAIN, ALSO EARLY ON TO
8 SUPPORT THINGS SUCH AS THE SHARED LABS WHICH WERE
9 MENTIONED AND MAJOR FACILITIES. AND THE GOAL BEHIND
10 THAT WAS TO ALLOW FOLKS TO BE ABLE TO CONDUCT HUMAN
11 EMBRYONIC STEM CELL RESEARCH WITHOUT FEDERAL
12 RESTRICTIONS.

13 SO WE PROVIDED BACKGROUND LIKE THIS. IT
14 WAS ACTUALLY A VERY COMPREHENSIVE SET OF DATA TO
15 EVERYONE THAT PARTICIPATED IN THIS. AND SO THIS WAS
16 JUST AN EXAMPLE. AND IN ADDITION, WE ALSO PROVIDED
17 SOME FORWARD-LOOKING QUESTIONS. SO PART OF IT WAS
18 TO MAKE SURE THEY UNDERSTOOD WHAT CIRM HAD DONE AS
19 CONTEXT, BUT ALSO TO PROBE THE GROUP WITH QUESTIONS
20 TO THINK ABOUT AND TO STIMULATE THEIR THINKING ABOUT
21 CURRENT AND FUTURE NEEDS FOR THE FIELD.

22 WE DID EXPLAIN TO THE GRANTS WORKING GROUP
23 THAT WE DON'T KNOW IF CIRM WILL CONTINUE AND HAVE A
24 FUTURE BEYOND 2020, BUT THAT POSSIBILITY CLEARLY
25 EXISTS, BUT WE ALSO KNOW THERE'S AN ONGOING NEED

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1 REGARDLESS TO ADDRESS UNMET MEDICAL NEEDS AS WELL AS
2 THE FACT THAT REGENERATIVE MEDICINE CONTINUES TO BE
3 A PROMISING AVENUE.

4 SO GIVEN THE POSSIBILITY OF NEW FUNDING,
5 OUR QUESTION, OUR MAIN REALLY CENTRAL QUESTION TO
6 THE GROUP IS WHAT SHOULD CIRM BE THINKING ABOUT NOW
7 TO PREPARE FOR A POSSIBLE LIFE BEYOND 2020? SO
8 QUESTIONS SUCH AS THIS TO CONSIDER HOW CAN WE
9 DELIVER THE GREATEST IMPACT IN THE FUTURE? WHAT
10 OPPORTUNITIES MIGHT CIRM SEIZE IN ORDER TO
11 ACCELERATE THE FIELD? WHAT CHALLENGES COULD BE
12 ADDRESSED? WHAT TYPES OF PROGRAMS COULD BE
13 SUSTAINED OR EXPANDED? WHAT'S MISSING? WHAT NEEDS
14 MORE SUPPORT?

15 AND SO FOR PRACTICALITY, WE USED THE
16 FUNDING PILLARS THAT I MENTIONED AND SHOWN HERE
17 AGAIN TO ORGANIZE OUR DISCUSSION. SO WE SEPARATED
18 AND CREATED EVEN MORE QUESTIONS FOR THEM TO
19 STIMULATE THEIR THINKING PERTINENT TO EACH OF THOSE
20 PILLARS. AND SO THE MEETING ITSELF THEN HAD TWO
21 MAIN SESSIONS. SO WE HAD A BREAKOUT SESSION IN THE
22 MORNING TO ALLOW THE GRANTS WORKING GROUP MEMBERS TO
23 HAVE A FOCUSED DISCUSSION IN A SMALLER GROUP
24 SETTING. AND THROUGH THIS DISCUSSION, THIS WAS
25 ABOUT LITTLE OVER TWO HOURS, TO DEVELOP AND PROPOSE

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1 THREE OR MORE RECOMMENDATIONS TO CIRM RELATED TO
2 THOSE CENTRAL QUESTIONS.

3 WE ASSIGNED A DISCUSSION LEADER FROM THE
4 GRANTS WORKING GROUP WHO HELPED MANAGE THAT AND THEN
5 ALSO SOME CIRM TEAM MEMBERS WHO PROVIDED ADDITIONAL
6 BACKGROUND OR CONTEXT INFORMATION.

7 AFTER LUNCH WE BROUGHT EVERYONE TOGETHER
8 AND THEN HAD EACH OF THE GROUPS PRESENT THEIR
9 INITIAL RECOMMENDATIONS TO CIRM, TO HAVE A
10 DISCUSSION, AND TO JUST GET THE PERSPECTIVES FROM
11 THE DIFFERENT GROUPS SO THAT THEY COULD EITHER
12 FINE-TUNE, ADJUST, OR MAKE ADDITIONAL POINTS ON ALL
13 OF THESE.

14 AT THE END OF THE MEETING, WE ENDED UP
15 WITH WHAT WERE 27 RECOMMENDATIONS THAT CAME FROM
16 THOSE FIVE GROUPS. AND SO WE ARE IN THE PROCESS
17 RIGHT NOW OF DEVELOPING A FORMAL REPORT THAT WE ARE
18 GOING TO PUBLISH ON THE WEBSITE AND, OF COURSE, THAT
19 WE WILL SHARE WITH YOU THAT WILL CONTAIN DETAILS OF
20 THESE RECOMMENDATIONS AND IDEAS THAT WERE BROUGHT
21 ABOUT.

22 AND WHAT I WANTED TO DO TODAY WAS JUST
23 SIMPLY GIVE YOU A LITTLE FLAVOR OF SOME OF THE
24 THEMES THAT WERE BROUGHT, SOME OF THE GENERAL ADVICE
25 THAT WAS GIVEN, AND SOME OF THE THINGS YOU MAY FIND

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1 PERHAPS NOT TOO SURPRISING. THOSE THAT WERE IN
2 ATTENDANCE MAY HAVE ADDITIONAL ONES. THESE ARE ONES
3 THAT JUMPED OUT AT ME.

4 THE FIRST ONE IS PRIORITIZE FUNDING OF
5 WORK THAT CANNOT BE FUNDED ELSEWHERE THAT IS
6 UNDERFUNDED. I THINK MANY OF THE GWG MEMBERS VIEWED
7 THIS AS ONE OF THE HALLMARKS OF CIRM, NOT ONLY IN
8 THE FACT THAT CIRM HAS FUNDED HUMAN EMBRYONIC STEM
9 CELL WORK, ACCESS TO RESEARCH USING FETAL TISSUE,
10 BUT ALSO EVEN THE TYPES OF ACTIVITIES THAT ARE
11 FUNDED ALONG THE DEVELOPMENT AND THERAPEUTIC
12 PIPELINE ARE OFTEN UNDERFUNDED BY OTHERS AND AN
13 IMPORTANT ELEMENT TO CONTINUE.

14 THERE WERE SUGGESTIONS TO EXPLORE WAYS TO
15 ENCOURAGE COLLABORATIVE AND TEAM-BASED APPROACHES.
16 SO THIS WAS IN A VARIETY OF WAYS, BOTH IN TERMS OF
17 BRINGING INVESTORS TOGETHER WITH DIFFERENT EXPERTISE
18 AND BACKGROUNDS, LIKE FOLKS IN BIOLOGY AND PHYSICS,
19 TO THINK ABOUT NEW WAYS OF DEVELOPING ASSAYS OR
20 ADDRESSING PROBLEMS, AS WELL AS EVEN THINKING ABOUT
21 BIGGER PICTURE DISEASE TEAM-LIKE APPROACHES WHERE
22 YOU BRING DISCOVERY, TRANSLATIONAL, AND CLINICAL
23 PEOPLE TOGETHER TO ADDRESS A PROBLEM.

24 THERE WERE ALSO SUGGESTIONS TO ESTABLISH
25 AND MAINTAIN CORE SERVICES, ENCOURAGE

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1 STANDARDIZATION, AND IMPLEMENT DATA SHARING. AND SO
2 DR. MILLAN TALKED A LITTLE BIT ABOUT THAT, BUT
3 CERTAINLY ENCOURAGING WAYS IN WHICH OUR
4 INVESTIGATORS CAN MAKE DATA THAT IS GENERATED
5 ACCESSIBLE TO OTHERS FOR THE SAKE OF SHARING AND
6 BENEFITING, DEVELOPING STANDARDS THAT INVESTIGATORS
7 CAN USE IN ORDER TO BETTER SHARE AND MAKE USE AND
8 ANALYZE DATA.

9 AND THEN THE LAST ONE, TO FUND GENERALLY
10 ALL REGENERATIVE MEDICINE APPROACHES AND NOT LIMIT
11 FUNDING JUST TO STEM CELLS. I THINK THE GROUP
12 GENERALLY FELT THAT STEM CELLS IS A REALLY IMPORTANT
13 ELEMENT AND TOOL THAT CIRM HAS FUNDED, BUT THERE ARE
14 ADDITIONAL IMPORTANT TOOLS, SUCH AS GENE THERAPY
15 THAT WE HAVE ALSO TALKED ABOUT FUNDING, THAT ARE
16 WITHIN THE SCOPE OF REGENERATIVE MEDICINE THAT MAY
17 DESERVE ATTENTION AS WELL.

18 THERE ARE ANOTHER HOST OF IDEAS THAT I
19 WON'T NECESSARILY GO THROUGH, BUT JUST REMIND YOU
20 THAT WE WILL PROVIDE A COMPREHENSIVE REPORT ABOUT
21 THIS, BUT JUST WANTED TO GIVE YOU A SENSE OF KIND OF
22 WHAT HAPPENED AT THAT MEETING AND WHAT WE ARE
23 PREPARING. SO LOOK OUT FOR IT. HAPPY TO ADDRESS
24 ANY QUESTIONS THAT YOU HAVE.

25 CHAIRMAN THOMAS: ANY QUESTIONS FOR DR.

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1 SAMBRANO?

2 DR. STEWARD: SO, GIL, I JUST WANTED TO
3 COMPLIMENT YOU ON WHAT I THOUGHT WAS A SPECTACULAR
4 MEETING. IT WAS REALLY EXACTLY ALONG THE LINES THAT
5 I THINK NEEDED TO BE DONE. IT LED TO EMPOWERING THE
6 GROUP OF PEOPLE THAT'S BEEN WORKING WITH CIRM FOR
7 ALL THESE YEARS AND DRAWING FROM THEIR COLLECTIVE
8 WISDOM. I JUST WANT TO SAY THANK YOU VERY MUCH FOR
9 DOING THIS. I LOOK FORWARD TO THE DOCUMENT. THANKS
10 TO ALL OF CIRM STAFF WHO WERE THERE WHO MADE THIS
11 REALLY, I THINK, VERY ENJOYABLE AND I THINK IT'S
12 GOING TO BE A VERY PRODUCTIVE MEETING.

13 DR. SAMBRANO: THANK YOU. AGAIN, IT
14 REALLY WAS A TEAM EFFORT. WE HAD SHYAM PATEL, HALEY
15 LAMB, AND TRICIA CHIVERA, AND THE REVIEW GROUP AS
16 WELL AS STEVEN LYNN AND KELLY SHEPHERD WHO REALLY
17 HELPED FOCUS US AND THINK OF THESE QUESTIONS, PUT
18 THIS DECK TOGETHER. SO VERY KEY. THANK YOU.

19 DR. PRIETO: I WOULD JUST LIKE TO ENDORSE
20 THAT. REALLY WAS A VERY GOOD MEETING AND VERY WELL
21 DONE.

22 DR. YAMAMOTO: THIS IS GREAT, GIL. THANKS
23 FOR THAT. I'M JUST WONDERING HOW YOU THINK THAT
24 THESE RECOMMENDATIONS WILL REALLY BE ADVANCED TO
25 ACTION. HOW WILL IT AFFECT THE WAY THE CALLS FOR

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1 PROPOSALS ARE PUT FORWARD AND CONSTRUCTED? KIND OF
2 THE EMPHASIS OF THE REVIEWS AND SO FORTH.

3 DR. SAMBRANO: THAT'S AN EXCELLENT
4 QUESTION. I THINK PART OF WHAT OUR GOAL IS IS TO
5 CONTINUE TO HAVE MEETINGS LIKE THIS WHERE WE ARE
6 DRAWING EXPERT OPINIONS AND THOUGHTS ABOUT WHAT'S
7 GOING ON IN THE FIELD. SO AS WE BEGIN TO DEVELOP
8 RFA'S AND EVERYTHING ELSE, WE HAVE OUR PULSE ON IT.
9 SO IT WILL GO INTO THE FILE THAT WE WILL CONTINUE TO
10 EXPAND THROUGH OUR COLLECTION OF INPUT FROM OTHER
11 SOURCES AS WELL.

12 ONE OF THE HOPES WAS THAT IN HIGHLIGHTING
13 SOME OF THESE THEMES THAT I TALKED ABOUT, LET'S SAY
14 DATA SHARING, FOR EXAMPLE, THAT THAT MIGHT POINT TO,
15 SAY, ANOTHER WORKSHOP WHERE WE MAY GET EXPERTS IN
16 DATA SHARING THAT MAY POINT US TO MORE SPECIFIC
17 RECOMMENDATIONS THERE.

18 MR. TORRES: I'M SORRY I HAD TO MISS THE
19 MEETING, BUT I APPRECIATE THE DOCUMENT THAT YOU
20 FORWARDED TO ME. IT WAS VERY EXHAUSTIVE. AND ONE
21 OF THE MOST INCREDIBLE EXPERIENCES I'VE HAD WORKING
22 HERE IS SERVING ON THESE WORKING GROUPS BECAUSE YOU
23 GET TO KNOW SO MANY INCREDIBLE PEOPLE THAT DEVOTE
24 TIME TO HELP US OUT. AND, AGAIN, MY THANKS TO THE
25 REST OF THE STAFF WHO PARTICIPATED IN THE MEETING

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1 AND HELPED PUT TOGETHER THE DOCUMENT. IT WAS VERY
2 WORTHWHILE. THANK YOU.

3 CHAIRMAN THOMAS: GIL, I'D LIKE TO ADD
4 THAT THE SENSE OF ACCOMPLISHMENT, CONTRIBUTION, AND
5 PRIDE THAT WAS EVIDENT AMONGST ALL THE MEMBERS OF
6 THE GWG WAS PALATABLE IN THIS MEETING. THEY REALLY
7 FEEL LIKE THEY HAVE CONTRIBUTED TO SOMETHING REALLY
8 BIG. IT JUST MADE FOR A GREAT ATMOSPHERE AND A
9 GREAT REFLECTION AND SET OF RECOMMENDATIONS GOING
10 FORWARD. I THOUGHT IT WAS OUTSTANDING.

11 DR. SANDMEYER: I THOUGHT THAT THE FINAL
12 DOCUMENT WASN'T READY YET, BUT ART SAID HE RECEIVED
13 A COPY. SO I WONDERED IF THERE WOULD BE COPIES
14 AVAILABLE TO REST OF US.

15 TO FOLLOW UP ON OUR EARLIER DISCUSSION,
16 BUT NOT TO RESTART IT, WHETHER THERE WAS ANYTHING IN
17 THAT DOCUMENT THAT SPEAKS TO ANYTHING PARTICULAR IN
18 THE BOND ISSUE.

19 DR. SAMBRANO: THE DOCUMENT THAT WAS
20 REFERENCED BY MR. TORRES, SENATOR TORRES, IS REALLY
21 A SLIDE DECK THAT PRESENTS ALL THE BACKGROUND. SO I
22 SHOWED YOU ONE EXAMPLE. I'M HAPPY TO SHARE IT WITH
23 THIS GROUP. BUT IT IS NOT THE DOCUMENT THAT HAS ALL
24 THE RECOMMENDATIONS. SO WE'RE STILL WORKING ON
25 THAT, AND OUR TARGET IS TO HAVE THAT HOPEFULLY BY

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1 DECEMBER 1ST.

2 MR. SHEEHY: PER THE QUESTION ABOUT THE
3 MEASURE, I WAS ON THE INFRASTRUCTURE GROUP, AND
4 THAT'S KIND OF WHAT STIMULATED THIS IS THE ELEMENTS
5 THAT WE DISCUSSED IN THE INFRASTRUCTURE GROUP ARE
6 NOT ELEMENTS THAT ARE IN THE BOND MEASURE, BUT, IN
7 FACT, SOME OF THEM, THERE WAS A VERY TEPID REACTION
8 TO. NOT TO SAY THAT WE HADN'T DONE AMAZING WORK
9 WITH THOSE INITIATIVES, BUT THOSE INITIATIVES, IT
10 WASN'T CLEAR THAT THEY HAD NOT -- TRY NOT TO USE
11 DOUBLE NEGATIVES -- BUT THERE WAS A FEELING THAT
12 THEY MAY HAVE SERVED THE PURPOSE THEY WERE MEANT TO
13 SERVE.

14 THE ONE BIG ISSUE, AND IT'S REFERENCED IN
15 THESE SLIDES, IS THE CLEARLY IDENTIFIED GAP IN
16 MANUFACTURING AND IN CELL THERAPY. WE HAVE THESE
17 OUTSTANDING ACADEMIC RESEARCH INSTITUTIONS WITH THE
18 CAPABILITY TO GET US TO PHASE 1, PHASE 2. ONCE YOU
19 GO COMMERCIAL, THERE'S ALONZA WHO SEEMS TO DO A LOT
20 OF THE WORK, BUT TO REALLY GEAR UP FOR PHASE 3 AND
21 ALSO, FRANKLY, TO CREATE SOME COMPETITION FOR THE
22 FOR-PROFIT FOLKS WHO REALLY KIND OF HAVE PEOPLE OVER
23 A BARREL. BUT THERE'S A REAL ROADBLOCK IN CAPACITY
24 FOR MANUFACTURING THAT WE COULD REALLY HELP ADDRESS
25 WITH NEW FUNDING. AND THAT'S NOT IN THE NEW

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1 MEASURE. PROBABLY SHOULDN'T BE BECAUSE THAT WOULD
2 BE TOO PROSCRIPTIVE. AND I'M CERTAIN THAT DR.
3 MILLAN WILL HAVE IT IN OUR NEXT STRATEGIC PLAN, BUT
4 IT'S A HUGE NEED.

5 CHAIRMAN THOMAS: THANK YOU VERY MUCH,
6 GIL. ON THIS THEME, THE BOARD IS EXECUTING A
7 RESOLUTION TO THE MEMBERS OF THE GWG THAT
8 MEMORIALIZES THEIR WORK AND CONTRIBUTION. AND I'M
9 JUST GOING TO READ IT BECAUSE IT SORT OF WILL TAKE
10 TWO MINUTES AND IT CAPTURES THE ESSENCE OF THE
11 CONTRIBUTION AND THE IMPORTANCE OF THE GWG TO THE
12 WHOLE EFFORT.

13 WHEREAS, THE GRANTS WORKING GROUP WAS
14 ESTABLISHED AS AN ADVISORY BODY TO CIRM'S GOVERNING
15 BOARD TO EVALUATE AND IDENTIFY THE MOST
16 SCIENTIFICALLY MERITORIOUS PROPOSALS.

17 WHEREAS, THE GWG -- JUST ACRONYMING
18 HERE -- HAS CONDUCTED 117 REVIEW MEETINGS AND
19 ASSESSED OVER 3,000 APPLICATIONS IN CIRM'S 14-YEAR
20 LIFETIME.

21 WHEREAS, THE GWG UNIQUELY BRINGS TOGETHER
22 THE PERSPECTIVES OF SCIENTISTS AND PATIENT
23 ADVOCATES.

24 WHEREAS, THE GWG INCLUDES A BROAD GROUP OF
25 HIGHLY REGARDED PIONEERS AND INNOVATORS IN THE FIELD

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1 OF REGENERATIVE MEDICINE.

2 WHEREAS, THE GWG HOLDS EXPERTISE ACROSS A
3 HOST OF DISCIPLINES FROM FUNDAMENTAL BIOLOGY,
4 TRANSLATIONAL RESEARCH, MEDICINE, PRODUCT
5 MANUFACTURING, DRUG DEVELOPMENT, REGULATORY AFFAIRS,
6 AND CLINICAL TRIALS.

7 WHEREAS, THE GWG MEMBERS RESIDE OUTSIDE OF
8 CALIFORNIA, BUT THEIR COMMITMENT TO THE FIELD AND
9 CIRM'S MISSION BRINGS THEM TOGETHER IN SUPPORT OF
10 OUR EFFORTS.

11 WHEREAS, THE GWG MEMBERS DEDICATE THEIR
12 TIME WELL BEYOND OUR ABILITY TO COMPENSATE TO THE
13 THOROUGH, THOUGHTFUL, AND RIGOROUS EVALUATION OF
14 SCIENTIFIC PROPOSALS.

15 WHEREAS, THE GWG TAKES CIRM'S MISSION TO
16 HEART AND COINS TERMS LIKE CIRMY -- THAT'S MY
17 FAVORITE PROVISION -- TO CHARACTERIZE PROPOSALS THAT
18 BEST ALIGN WITH THAT MISSION. THAT'S MARK NOBLE'S
19 TERM FOR ANY OF YOU GUYS WHO SAT ON THE GWG, COINED
20 MANY YEARS AGO.

21 WHEREAS, THE GWG HAS CONTINUOUSLY
22 CONTRIBUTED THEIR ADVICE AND EXPERIENCE TO HELP
23 REFINE AND IMPROVE CIRM'S PROCESS AND POLICIES.

24 WHEREAS, THE GWG MEMBERS TAKE PRIDE IN
25 SERVING THE FIELD THROUGH THEIR WORK FOR CIRM.

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1 WHEREAS, THE GWG'S EARNEST AND PRINCIPLED
2 REVIEWS HAVE ELEVATED THE RESPECT FOR CIRM'S PEER
3 REVIEW PROCESS.

4 BE IT RESOLVED THAT THE GOVERNING BOARD OF
5 THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
6 ON BEHALF OF THE STATE OF CALIFORNIA WISHES TO
7 EXPRESS ITS DEEPEST GRATITUDE TO THE GWG MEMBERS FOR
8 THEIR SERVICE TO CIRM AND DEDICATION TO ACCELERATING
9 STEM CELL TREATMENTS TO PATIENTS WITH UNMET MEDICAL
10 NEEDS.

11 SO THAT'S WHAT'S GOING TO GO TO ALL OF
12 THEM. I JUST THOUGHT YOU SHOULD BE AWARE OF THAT.

13 THAT BRINGS US TO THE LAST ITEM ON THE
14 AGENDA. DO WE HAVE ANY PUBLIC COMMENT ON ANYTHING?
15 HEARING NONE, I WANT TO AGAIN WISH EVERYBODY A HAPPY
16 HALLOWEEN. I CONGRATULATE THE WASHINGTON NATIONALS,
17 NOT MY OBVIOUS FIRST CHOICE. I'D LIKE TO THANK AL
18 FOR BEING THE FIRST PERSON TO SEND ME AN
19 UNBELIEVABLY INSINCERE TEXT OF CONDOLENCE. THE
20 DODGERS GOT KNOCKED OUT FOLLOWED BY MANY OTHERS.

21 AND, LASTLY, WOULD LIKE TO DO -- END THE
22 MEETING ON A SHOUT OUT TO OUR INCREDIBLY BRAVE
23 FIREMEN AND WOMEN OF THE STATE OF CALIFORNIA AND
24 THOSE WHO COME IN FROM OTHER STATES TO BATTLE WHAT'S
25 SEEMINGLY AN ENDLESS STRING OF FIRES. A NUMBER OF

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1 US ARE VERY CLOSE. DR. MALKAS UP IN SYLMAR AREA.
2 CLIVE SVENDSEN WHEN WE WAS HERE HAD TO EVACUATE IN
3 BRENTWOOD. OUR HOUSE IS THREE BLOCKS SOUTH OF THE
4 EVACUATION ZONE. WE'VE BEEN ON ALERT SINCE 2 A.M.
5 MONDAY AND MANY OTHERS AS WELL. BUT FOR THE
6 INCREDIBLE PERFORMANCE BY OUR BRAVE FIREMEN AND
7 WOMEN, WE WOULD BE IN A MAJOR WORLD OF HURT. SO I'D
8 LIKE TO END THE MEETING --

9 MR. TORRES: YOU FORGOT ONE PART OF THE
10 STATE, SONOMA AND NAPA COUNTIES. THIS IS THE SECOND
11 TIME IN TWO YEARS THAT I ALMOST LOST MY HOUSE BUT
12 FOR THE COURAGEOUS ACTIVITIES OF CAL FIRE AND ALL OF
13 THE POLICE AND FIRE AND FIRST RESPONDERS FROM NOT
14 ONLY OUR STATE, BUT OTHER STATES AS WELL THAT REALLY
15 HELPED US OUT. IT'S HARD TO IMAGINE TO SEE A FIRE
16 ENGINE IN CALISTOGA THAT SAYS BEVERLY HILLS,
17 CALIFORNIA, AND YET WE DID. MY HEART AND MY THANKS
18 GO OUT TO THE COURAGEOUS PEOPLE THAT WERE THERE AND
19 ALL THE VOLUNTEERS AT THE EVACUATION CENTERS. WE
20 STILL DON'T HAVE POWER YET IN SOME PARTS, AT LEAST
21 IN MY PART, BUT POWER IS COMING BACK. I KNOW DR.
22 MARTIN SUFFERED NO POWER IN MARIN COUNTY. MY HEART
23 GOES OUT TO ALL OF THOSE FOLKS WHO HAD TO ENDURE
24 THIS ONE MORE TIME, AND LET'S PRAY THAT PG&E IS
25 TAKEN OVER BY A REAL COMPANY.

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CHAIRMAN THOMAS: ON THAT FINE NOTE, THANK
YOU FOR THAT ADDENDUM. WE STAND ADJOURNED.
(THE MEETING WAS THEN ADJOURNED AT 2:19 P.M.)

REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS BEFORE THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE AND THE APPLICATION REVIEW SUBCOMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD AT THE LOCATION INDICATED BELOW

1999 HARRISON STREET
SUITE 1650
OAKLAND, CALIFORNIA
ON
OCTOBER 31, 2019

WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

BETH C. DRAIN, CA CSR 7152
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